

**BEFORE THE  
PUBLIC SERVICE COMMISSION OF  
SOUTH CAROLINA**

**DOCKET NO. 2019-1-E**

In the Matter of  
Annual Review of Base Rates  
for Fuel Costs for  
Duke Energy Progress, LLC

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**DIRECT TESTIMONY OF  
DANA M. HARRINGTON FOR  
DUKE ENERGY PROGRESS, LLC**

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1   **Q.   PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2   A.   My name is Dana M. Harrington, and my business address is 550 South Tryon  
3       Street, Charlotte, North Carolina.

4   **Q.   BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

5   A.   I am a Rates Manager supporting both Duke Energy Progress, LLC (“DEP” or the  
6       “Company”) and Duke Energy Carolinas, LLC (“DEC”) (collectively, the  
7       “Companies”).

8   **Q.   PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND**  
9       **PROFESSIONAL EXPERIENCE.**

10  A.   I received a Bachelor of Arts degree in Psychology with Honors from the University  
11       of North Carolina at Chapel Hill and I am a certified public accountant licensed in  
12       the State of North Carolina. I began my accounting career in 2005 with Greer and  
13       Walker, LLC as a tax accountant and later a staff auditor. From 2007 until 2010 I  
14       was an Accounting Analyst with Duke Energy in the Finance organization. In 2010,  
15       I joined the Rates Department as a Lead Accounting Analyst where I have spent  
16       the past eight years. I was recently promoted to the position of Rates and  
17       Regulatory Strategy Manager.

18  **Q.   HAVE YOU TESTIFIED BEFORE THIS COMMISSION IN ANY PRIOR**  
19       **PROCEEDINGS?**

20  A.   No.

21  **Q.   WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

22  A.   The purpose of my testimony is to provide DEP’s actual fuel, capacity-related costs  
23       including Public Utility Regulatory Policies Act of 1978 (“PURPA”) capacity,

1 environmental, and Distributed Energy Resource Program (“DERP”) cost data for  
2 March 1, 2018 through February 28, 2019 (the “review period”), the estimated fuel,  
3 capacity-related costs, environmental and DERP cost information for March 1,  
4 2019 through June 30, 2019 (the “estimated period”), and DEP’s proposed fuel  
5 factors by customer class for July 1, 2019 through June 30, 2020 (the “billing  
6 period”). I have provided fourteen exhibits to support my testimony.

7 **Q. WHAT IS THE SOURCE OF THE ACTUAL INFORMATION AND DATA**  
8 **FOR THE REVIEW PERIOD?**

9 A. Actual test period kilowatt hour (“kWh”) generation, kilowatt (“kW”) and kWh  
10 sales, fuel-related revenues, fuel-related expenses, and DERP revenues and  
11 expenses were taken from DEP’s books and records. These books, records, and  
12 reports of DEP are subject to review by the appropriate regulatory agencies in the  
13 three jurisdictions that regulate DEP’s electric rates.

14 In addition, independent auditors perform an annual audit to provide  
15 assurance that, in all material respects, internal accounting controls are operating  
16 effectively and DEP’s financial statements are accurate.

17 **Q. DOES DEP PURCHASE POWER AND HOW ARE THESE COSTS**  
18 **RECORDED?**

19 A. Yes. The Company continuously evaluates purchasing power if it can be reliably  
20 procured and delivered at a price that is less than the variable cost of DEP’s  
21 generation. In accordance with S.C. Code Ann. § 58-27-865(A), from its South  
22 Carolina retail customers, DEP recovers an amount that is the lower of the purchase  
23 price or DEP’s avoided variable cost for generating an equivalent amount of power.

1 The Company also engages in economy purchases (and economy sales) with DEC  
2 as a result of the Joint Dispatch Agreement.

3 The Company also purchases power from certain suppliers that are treated  
4 as firm generation capacity purchases. In accordance with S.C. Code Ann. § 58-  
5 27-865(A)(2)(a), all amounts paid to these suppliers are recorded as recoverable  
6 fuel costs with the exception of capacity charges.

7 Finally, the Company routinely purchases power from qualifying facilities  
8 under PURPA. According to Act 236, set forth in S.C. Code Ann. § 58-27-865(A),  
9 the avoided cost payments for such purchases are included in fuel costs recoverable  
10 from South Carolina retail customers.

11 **Q. PLEASE EXPLAIN HARRINGTON EXHIBIT NO. 1.**

12 A. Harrington Exhibit No. 1 is a summary of DEP's proposed fuel rate components  
13 for the billing period. The components are: (1) base fuel costs, (2) capacity-related  
14 costs, (3) DERP avoided costs, (4) variable environmental costs, and (5) DERP  
15 incremental costs. Harrington Exhibit No. 1 presents proposed fuel rates for  
16 residential customers including an amount added to account for the 5% discount  
17 provided to residential customers under DEP's SC Residential Service Energy  
18 Conservation Discount Rider RECD-2C. As shown on Harrington Exhibit No. 6,  
19 this discount impacts approximately 14.5% of DEP's South Carolina residential  
20 sales. These fuel rate components are supported by Harrington Exhibit Nos. 2  
21 through 14 and are individually discussed further in this testimony.

22 The following table shows the rates and monthly charges proposed by the  
23 Company in this proceeding as reflected on Harrington Exhibit No. 1. The DERP

incremental cost component is computed as a dollar amount per customer account since these amounts are subject to per-account cost caps established by Act 236. All other fuel components are computed as a cents per kWh rate or a cents per kW rate depending on the customer class.

Description	Customer Class			
	Cents / kWh			
	Residential	General Service (non-demand)	Lighting	General Service (demand)
<b>Base Fuel Costs</b>				
Base Fuel Cost Component (Over) / Under Collection at June 2019	0.125	0.125	0.125	0.125
Base Fuel Cost Component Projected Billing Period	1.950	1.950	1.950	1.950
Total Base Fuel Cost Component	2.075	2.075	2.075	2.075
Total Base Fuel Cost Component Increased for RECD	2.090			
<b>Capacity Related Cost</b>	Cents / kWh			Cents / kW
Capacity Related Cost Component (Over) / Under Collection at June 2019	0.040	(0.001)	0.000	3
Capacity Related Cost Component Projected Billing Period	0.652	0.523	0.000	89
Total Capacity Related Cost Component	0.692	0.522	0.000	92
Total Capacity Related Cost Component Increased for RECD	0.697			
<b>Distributed Energy Resource Program (DERP) Avoided Costs</b>	Cents / kWh			Cents / kW
DERP Avoided Cost (Over) / Under Collection at June 2019	0.000	0.001	0.000	0
DERP Avoided Costs Projected Billing Period	0.003	0.002	0.000	0
Total DERP Avoided Cost Component	0.003	0.003	0.000	0
Total DERP Avoided Cost Component Increased for RECD	0.003			
<b>Environmental Costs</b>	Cents / kWh			Cents / kW
Environmental Component (Over) / Under Collection at June 2019	0.015	0.010	N/A	2
Environmental Component Projected Billing Period	0.059	0.047	N/A	8
Total Environmental Component	0.074	0.057	N/A	10
Total Environmental Cost Component Increased for RECD	0.075			
<b>Total Fuel Cost Factor - Cents/ kWh</b>	<b>2.865</b>	<b>2.657</b>	<b>2.075</b>	<b>2.075</b>
<b>Total Demand Fuel Cost Factor - Cents/ kW</b>				<b>102</b>
	Dollars			
<b>Distributed Energy Resource Program Incremental Cost per Account</b>	<b>Residential</b>	<b>Commercial</b>	<b>Industrial</b>	
<b>DERP Incremental (Over) / Under Collection at June 2019</b>				
Annual Charge	\$ 2.24	\$ 3.96	\$ 263.24	
Monthly Charge	\$ 0.19	\$ 0.33	\$ 21.94	
<b>DERP Incremental Projected Billing Period</b>				
Annual Charge	\$ 16.53	\$ 29.25	\$ 2,140.53	
Monthly Charge	\$ 1.38	\$ 2.44	\$ 178.38	
<b>Total DERP Annual Charge - Excluding GRT</b>	<b>\$ 11.95</b>	<b>\$ 33.21</b>	<b>\$ 1,194.68</b>	
<b>Total DERP Monthly Charge - Excluding GRT</b>	<b>\$ 1.00</b>	<b>\$ 2.77</b>	<b>\$ 99.56</b>	
<b>Total DERP Annual Charge -Including GRT</b>	<b>\$ 12.00</b>	<b>\$ 33.36</b>	<b>\$ 1,200.00</b>	
<b>Total DERP Monthly Charge - Including GRT</b>	<b>\$ 1.00</b>	<b>\$ 2.78</b>	<b>\$ 100.00</b>	

Act 236 requires that capacity-related costs and avoided costs of distributed energy resource programs be tracked separately and allocated and recovered among

1 customer classes using the same method that is used to allocate and recover variable  
2 environmental costs.

3 In addition, Harrington Exhibit No. 1 includes the billing period per-account  
4 charge per month of \$1.00, \$2.78 and \$100.00, including Gross Receipts Tax  
5 (“GRT”), for South Carolina Residential, Commercial, and Industrial customers,  
6 respectively. The monthly DERP incremental per-account charge recovers 100%  
7 of the DERP incremental costs, in accordance with S.C. Code Ann. § 58-27-  
8 865(A)(1). Act 236 requires that the incremental costs of DERP be allocated  
9 among customer classes using the same method that is used to allocate variable  
10 environmental costs.

11 **Q. HOW DID DEP’S FUEL REVENUE BILLINGS COMPARE TO THE FUEL**  
12 **COSTS INCURRED DURING THE MARCH 2018 TO JUNE 2019 TIME**  
13 **PERIOD?**

14 A. Harrington Exhibit No. 2 is a monthly comparison of fuel revenues collected from  
15 South Carolina retail customers to the actual and estimated jurisdictional fuel costs  
16 attributable to those sales. The Company currently estimates that its deferred base  
17 fuel cost balance will be an under-collection of approximately \$8.4 million at June  
18 30, 2019.

19 **Q. PLEASE EXPLAIN HARRINGTON EXHIBIT NO. 3.**

20 A. Harrington Exhibit No. 3 presents DEP’s proposed base fuel rate of 1.950¢/kWh  
21 for the billing period to recover South Carolina’s retail share of approximately \$1.2  
22 billion of projected system fuel expense. The South Carolina retail share of

1 approximately \$131 million incorporates net metering avoided fuel benefits  
2 assigned fully to SC retail customers.

3 The fuel forecast supporting the projected fuel cost was generated by an  
4 hourly dispatch model that considers the latest forecasted fuel prices, planned  
5 maintenance and scheduled refueling outages at the generating plants, forced  
6 outages derived from historical trends, generating unit performance parameters,  
7 and expected market conditions associated with power purchases and off-system  
8 sales opportunities. In addition, the forecasting model reflects the joint dispatch of  
9 the combined power supply resources of DEC and DEP.

10 **Q. PLEASE PROVIDE A STATUS UPDATE OF ENVIRONMENTAL COSTS**  
11 **COLLECTION.**

12 A. During the review period, DEP recovered variable environmental costs and the  
13 costs of emission allowances through the environmental component of the fuel rate.  
14 Environmental costs allocated to the South Carolina retail jurisdiction during the  
15 review period were approximately \$1.6 million, as shown on Harrington Exhibit  
16 No. 4. The Company currently estimates that its deferred environmental cost  
17 balance will be an under-collection of approximately \$586,000 at June 30, 2019.

18 **Q. HAVE YOU PROVIDED A FORECAST OF ENVIRONMENTAL COSTS?**

19 A. Yes, Harrington Exhibit No. 5 presents DEP's projected system environmental  
20 costs for the billing period of approximately \$20.6 million. The South Carolina  
21 retail portion is projected to be approximately \$2.2 million.

22 **Q. PLEASE DESCRIBE EMISSION-REDUCING CHEMICALS THAT DEP**  
23 **INCLUDED IN THE PROPOSED FUEL RATE IN THIS FILING.**

1 A. As Company witness Turner explains more specifically in her testimony, DEP uses  
2 emission-reducing chemicals at its fossil/hydro plants to help it provide low cost,  
3 reliable electric generation for its customers while complying with state and federal  
4 environmental control obligations. As a result, DEP has included the cost of  
5 magnesium hydroxide, calcium carbonate, ammonia, urea, limestone, lime, and  
6 hydrated lime incurred during the review period in its fuel cost recovery  
7 application. Mercury and Air Toxics Standards (“MATS”) chemicals that DEP  
8 may use in the future to reduce emissions include, but may not be limited to,  
9 activated carbon, mercury oxidation chemicals, and mercury re-emission  
10 prevention chemicals.

11 **Q. HOW DID DEP ALLOCATE ENVIRONMENTAL COSTS?**

12 A. DEP allocated the South Carolina retail portion of environmental costs to  
13 Residential, General Service (non-demand), and General Service (demand) rate  
14 classes based upon the firm coincident peak demand of each class for the prior year.  
15 The 2017 firm coincident peak demand was used to allocate costs for the period  
16 March 2018 – December 2018 and the 2018 firm coincident peak demand was used  
17 to allocate costs for the period January 2019 – June 2020. This allocation is shown  
18 on Harrington Exhibit Nos. 4 and 5.

19 The total cost allocated to each class was divided by projected sales to  
20 arrive at a cents per kWh rate for Residential and General Service (non-demand)  
21 schedules or a cents per kW rate for General Service (demand) schedules.  
22 Allocations were consistent with the methodology approved by this Commission in  
23 Order No. 2007-440, issued in DEP’s 2007 fuel review proceeding. This



1 methodology has been consistently used in each fuel case since the issuance of the  
2 2007 Order.

3 **Q. PLEASE PROVIDE A STATUS UPDATE OF CAPACITY-RELATED**  
4 **COSTS COLLECTION.**

5 A. During the review period, DEP recovered capacity-related costs, including PURPA  
6 purchased power capacity costs and natural gas transportation (pipeline  
7 reservation/lease costs) and storage costs through the capacity-related component  
8 of the fuel rate. Capacity-related costs allocated to the South Carolina retail  
9 jurisdiction during the review period were approximately \$20 million, as shown on  
10 Harrington Exhibit No. 7. The Company currently estimates that its deferred  
11 capacity-related cost balance will be an under-collection of approximately \$1.2  
12 million at June 30, 2019.

13 **Q. HAVE YOU PROVIDED A FORECAST OF CAPACITY-RELATED**  
14 **COSTS?**

15 A. Yes. Harrington Exhibit No. 8 presents DEP's projected system capacity-related  
16 costs, including PURPA purchased power capacity costs, natural gas transportation  
17 (pipeline reservation/lease costs), and natural gas storage costs, for the billing  
18 period of approximately \$226 million. The South Carolina retail portion is  
19 projected to be approximately \$24.6 million.

20 **Q. HOW DID DEP ALLOCATE CAPACITY-RELATED COSTS?**

21 A. DEP allocated the South Carolina retail portion of capacity-related costs to the  
22 Residential, General Service (non-demand), and General Service (demand) rate  
23 classes based upon the firm coincident peak demand of each class for the prior year.

1 The 2017 firm coincident peak demand was used to allocate costs for the period  
2 March 2018 – December 2018 and the 2018 firm coincident peak demand was used  
3 to allocate costs for the period January 2019 – June 2020. This allocation is shown  
4 on Harrington Exhibit Nos. 7 and 8.

5 The total cost allocated to each class was divided by projected sales to arrive  
6 at a cents per kWh rate or cents per kW rate depending on the customer class.  
7 Allocations were consistent with the methodology approved by this Commission in  
8 Order No. 2015-843, issued in DEP’s 2015 fuel review proceeding. This  
9 methodology has been consistently used in each fuel case since the issuance of the  
10 2015 Order.

11 **Q. WHAT DERP INCREMENTAL COSTS ARE INCLUDED IN THIS**  
12 **FILING?**

13 A. S.C. Code Ann. § 58-39-140 defines “incremental costs” as all reasonable and  
14 prudent costs incurred by an electrical utility to implement a distributed energy  
15 resource program. This filing includes the following categories of incremental  
16 costs:

- 17 • Costs associated with purchase power agreements (“PPA”) in excess of the  
18 Company’s avoided cost rate, including those serving the purchased power  
19 needs of the Shared Solar program;
- 20 • The DERP net energy metering (“NEM”) Incentive, which is a credit  
21 available to eligible NEM customer-generators, approved in Docket No.  
22 2014-246-E;

- 1 • Amortization of solar rebate balances given to South Carolina residential
- 2 and non-residential customers to invest in or lease distributed generation;
- 3 • Carrying costs on unamortized solar rebate balances;
- 4 • An incentive utilized to lower the subscription charge customers pay to
- 5 participate in the Shared Solar program;
- 6 • Avoided capacity costs and administrative costs associated with NEM,
- 7 recoverable as an incremental cost based on S.C. Code Ann. § 58-40-
- 8 20(F)(6);
- 9 • General and administrative costs, which include the cost of developing and
- 10 implementing programs, incremental labor, and additional revenue-grade
- 11 meters; and
- 12 • Carrying costs on under-collected balances due to per-account cost caps.

13 **Q. PLEASE PROVIDE A STATUS UPDATE OF DERP INCREMENTAL**  
14 **COSTS COLLECTION.**

15 During the review period, DEP recovered DERP incremental costs, offset by any  
16 revenues collected from program participants, through the DERP incremental cost  
17 per account charge. Review period DERP incremental costs were approximately  
18 \$2.9 million, as shown on Harrington Exhibit No. 9. The Company currently  
19 estimates that its deferred DERP incremental cost balance will be an under-  
20 collection of approximately \$508,000 at June 30, 2019.

21 **Q. HOW DID DEP ALLOCATE DERP INCREMENTAL COSTS?**

22 DEP allocated 100% of DERP incremental costs to South Carolina  
23 Residential, Commercial (General Service/Lighting), and Industrial rate classes

1 based upon the firm coincident peak demand of each class for the prior year. The  
2 2017 firm coincident peak demand was used to allocate costs for the period March  
3 2018 – December 2018 and the 2018 firm coincident peak demand was used to  
4 allocate costs for the period January 2019 – June 2020. This allocation is shown  
5 on Harrington Exhibit Nos. 10 and 12. Each class's allocated portion of incremental  
6 costs were divided by the number of accounts subject to the DERP per-account  
7 charge in each class. This method results in an annual dollar per-account charge  
8 which is billed as a separate fixed monthly component of the fuel factor by  
9 customer class.

10 One exception to this approach is the allocation of the avoided capacity  
11 costs associated with NEM that is included in the DERP incremental costs. This  
12 particular incremental cost has been allocated to the South Carolina retail  
13 jurisdiction based on its pro rata share of system peak demand, rather than 100%.  
14 This DERP incremental cost is related to system generation supply resources. Costs  
15 and benefits associated with system generation supply resources are traditionally  
16 allocated among all of the Company's rate jurisdictions since such generation  
17 supply resources are operated as a portfolio to serve its native load customers in all  
18 rate jurisdictions.

19 **Q. PLEASE EXPLAIN HARRINGTON EXHIBIT NO. 10.**

20 A. Harrington Exhibit No. 10 presents the estimated deferred DERP incremental cost  
21 under-collection at June 30, 2019 as a billing period monthly per-account increment  
22 of \$0.19, \$0.33, and \$21.94, excluding GRT, for South Carolina Residential,  
23 Commercial, and Industrial customers, respectively.

1   **Q.   HAVE YOU PROVIDED A FORECAST OF DERP INCREMENTAL**  
2       **COSTS?**

3   A.   Yes, Harrington Exhibit No. 11 itemizes DEP's projected DERP incremental costs  
4       by cost type and month for the billing period. Total DERP incremental costs are  
5       projected to be approximately \$3.8 million.

6   **Q.   PLEASE EXPLAIN HARRINGTON EXHIBIT NO. 12.**

7   A.   Harrington Exhibit No. 12 presents the projected DERP incremental costs for the  
8       billing period as a billing period monthly per-account increment of \$1.38, \$2.44,  
9       and \$178.38, excluding GRT, for South Carolina Residential, Commercial, and  
10      Industrial customers, respectively. Proposed rates are subject to per-account cost  
11      caps.

12  **Q.   HOW DOES THE COMPANY TREAT UNDER-COLLECTED DERP**  
13       **INCREMENTAL COSTS RESULTING FROM REACHING THE PER-**  
14       **ACCOUNT COST CAP?**

15  A.   Consistent with Docket No. 2015-53-E, Order No. 2015-514, the Company  
16       reallocates under-collected DERP incremental costs in excess of the per-account  
17       cost caps among all customer classes with carrying costs applied at the three-year  
18       treasury rate plus 65 basis points. Interest calculated on the monthly under-  
19       collected balance is shown as a separate incremental cost on Harrington Exhibit  
20       Nos. 9 and 11.

21  **Q.   HAVE ANY CUSTOMER CLASSES REACHED THE DERP PER-**  
22       **ACCOUNT CAP IN THIS FILING?**

23  A.   Yes, the Residential and Industrial customer classes reached the per-account cap in

1 this filing. As a result, for the billing period, proposed DERP incremental rates are  
2 limited to a monthly per-account charge of \$1.00 for Residential customers and  
3 \$100.00 for Industrial customers, including GRT.

4 **Q. WHAT DERP AVOIDED COSTS ARE INCLUDED IN THIS FILING?**

5 A. All DERP avoided costs included in this filing are related to third party purchases.  
6 The DERP avoided costs in this filing refer to energy and capacity costs the utility  
7 avoids when buying power from a third party rather than generating the power  
8 itself. S.C. Code Ann. § 58-39-140(A)(1) states that “avoided cost,” as defined for  
9 the purpose of differentiating DERP program costs between incremental costs and  
10 avoided costs, includes “all costs paid under avoided cost rates, or negotiated rates  
11 pursuant to PURPA, which ever is lower.” Any amounts above avoided cost or  
12 above negotiated rates pursuant to PURPA from DERP third party purchases are  
13 treated as DERP incremental costs in this filing.

14 **Q. PLEASE PROVIDE A STATUS UPDATE OF DERP AVOIDED COSTS**  
15 **COLLECTION.**

16 A. During the review period, DEP recovered the DERP avoided costs of third party  
17 purchases, including the portion serving the purchased power needs of the Shared  
18 Solar program, through the DERP avoided cost component of the fuel rate. As  
19 shown on Harrington Exhibit No. 13, system DERP avoided costs during the review  
20 period were approximately \$588,000, of which approximately \$59,000 has been  
21 allocated to the South Carolina retail jurisdiction. The Company currently estimates  
22 that its South Carolina deferred DERP avoided cost balance will be an under-  
23 collection of approximately \$19,000 at June 30, 2019.

1     **Q.     HOW DID DEP ALLOCATE DERP AVOIDED COSTS?**

2             DEP allocated DERP avoided costs based on the same method used by the  
3             utility to allocate and recover variable environmental costs. As such, DEP allocated  
4             the South Carolina retail portion of DERP avoided costs to Residential, General  
5             Service (non-demand), General Service (demand) and Lighting rate classes based  
6             upon the firm coincident peak demand of each class for the prior year. The 2017  
7             firm coincident peak demand was used to allocate costs for the period March 2018  
8             – December 2018 and the 2018 firm coincident peak demand was used to allocate  
9             costs for the period January 2019 – June 2020.

10            The total cost allocated to each class was divided by projected sales to arrive  
11            at a cents per kWh rate or cents per kW rate, depending on the customer class. This  
12            allocation is shown on Harrington Exhibit Nos. 13 and 14.

13     **Q.     HAVE YOU PROVIDED A FORECAST OF DERP AVOIDED COSTS?**

14     A.     Yes, Harrington Exhibit No. 14 provides DEP's projected system DERP avoided  
15             costs for the billing period of approximately \$1 million. The South Carolina retail  
16             portion is projected to be approximately \$112,000.

17     **Q.     DO YOU BELIEVE DEP'S ACTUAL FUEL COSTS INCURRED DURING**  
18             **THE REVIEW PERIOD WERE REASONABLE?**

19     A.     Yes. I believe the costs were reasonable and that DEP has demonstrated that it has  
20             met the criteria set forth in S.C. Code Ann. § 58-27-865. These costs also reflect  
21             DEP's continuing efforts to maintain reliable service and an economical generation  
22             mix, thereby minimizing the total cost of providing service to DEP's South Carolina  
23             retail customers.

1 **Q. DO YOU BELIEVE DEP'S ACTUAL DERP COSTS INCURRED DURING**  
2 **THE PERIOD WERE REASONABLE?**

3 Yes. I also believe that the DERP costs were reasonable and that DEP has  
4 demonstrated that it met the criteria set forth in S.C. Code Ann. § 58-39-130(A)(2).

5 **Q. WHAT ARE THE KEY DRIVERS IMPACTING THE PROPOSED FUEL**  
6 **FACTOR?**

7 A. A number of factors contribute to the change in the proposed total fuel factor for  
8 all customer classes. Total fuel rates projected for the billing period are decreasing  
9 primarily due to an under-collection of fuel costs included in the 2019 proposed  
10 fuel rates that is smaller than the under-collection of fuel costs reflected in existing  
11 rates.

12 **Q. INCLUDING THE DERP INCREMENTAL PER-ACCOUNT CHARGES,**  
13 **WHAT IS THE IMPACT TO CUSTOMERS' BILLS IF THE PROPOSED**  
14 **FUEL COST, CAPACITY-RELATED COST, DERP AVOIDED COST, AND**  
15 **ENVIROMENTAL COST FACTORS ARE APPROVED BY THE**  
16 **COMMISSION?**

17 A. The impact of all components of this filing to customers' monthly bills on an  
18 average Residential customer using 1,000 kWh per month is a decrease of \$1.95,  
19 or 1.6 percent. The decrease seen in the average monthly bill of General Service  
20 (demand) and Lighting customers is 3.7 percent and 1.0 percent, respectively.  
21 Although impacts vary by customer, the average General Service (non-demand)  
22 customer should see a negligible bill impact.



1   **Q.    ARE THERE ANY ITEMS PROPOSED IN THE DEP SC BASE RATE**  
2       **CASE, DOCKET NO. 2018-318-E, THAT COULD IMPACT DERP COSTS**  
3       **AND ASSOCIATED REVENUES INCLUDED IN THIS FUEL FILING?**

4    A.    Yes. A proposal was made in the DEP SC base rate case, Docket No. 2018–318-E,  
5       to offset excess deferred income taxes with \$6 million of the unamortized SC DERP  
6       rebate balance. If approved by the Commission, the SC DERP solar rebate balance  
7       used to offset the deferred revenue tax benefit would be removed from the fuel case  
8       and any adjustments needed to avoid double recovery of this amount would be  
9       made accordingly.

10   **Q.    DOES THIS CONCLUDE YOUR PRE-FILED DIRECT TESTIMONY?**

11   A.    Yes, it does.

Line No.	Description	Reference	Cents / kWh			
			Residential	General Service	Lighting	General Service
				(non-demand)		(demand)

1	Base Fuel Cost Component (Over) / Under Collection at June 2019	Exhibit 2	0.125	0.125	0.125	0.125
2	Base Fuel Cost Component Projected Billing Period	Exhibit 3	1.950	1.950	1.950	1.950
3	Total Base Fuel Cost Component	Line 1 + Line 2	2.075	2.075	2.075	2.075
4	Total Base Fuel Cost Component Increased for RECD	Line 3 / (1-RECD factor)	2.090 [1]			

5	Capacity Related Cost Component (Over) / Under Collection at June 2019	Exhibit 7	0.040	(0.001)	0.000	3
6	Capacity Related Cost Component Projected Billing Period	Exhibit 8	0.652	0.523	0.000	89
7	Total Capacity Related Cost Component	Line 5 + 6	0.692	0.522	0.000	92
8	Total Capacity Related Cost Component Increased for RECD	Line 7 / (1- RECD factor)	0.697 [1]			

9	DERP Avoided Cost (Over) / Under Collection at June 2019	Exhibit 13	0.000	0.001	0.000	0
10	DERP Avoided Costs Projected Billing Period	Exhibit 14	0.003	0.002	0.000	0
11	Total DERP Avoided Cost Component	Line 9 + 10	0.003	0.003	0.000	0
12	Total DERP Avoided Cost Component Increased for RECD	Line 11 / (1- RECD factor)	0.003 [1]			

13	Environmental Component (Over) / Under Collection at June 2019	Exhibit 4	0.015	0.010	N/A	2
14	Environmental Component Projected Billing Period	Exhibit 5	0.059	0.047	N/A	8
15	Total Environmental Component	Line 13 + 14	0.074	0.057	N/A	10
16	Total Environmental Cost Component Increased for RECD	Line 15 / (1- RECD factor)	0.075 [1]			

17	Total Fuel Cost Factor - Cents/ kWh [2]	Line 4 + Line 8 + Line 12 + Line 16	2.865	2.657	2.075	2.075
18	Total Demand Fuel Cost Factor - Cents/ kW [2]	Line 7 + Line 11 + line 15				102

Dollars						
Residential		Commercial		Industrial		
19	DERP Incremental (Over) / Under Collection at June 2019					
19	Annual Charge	Exhibit 10	\$ 2.24	\$ 3.96	\$ 263.24	
20	Monthly Charge	Exhibit 10	\$ 0.19	\$ 0.33	\$ 21.94	
DERP Incremental Projected Billing Period						
21	Annual Charge	Exhibit 12	\$ 16.53	\$ 29.25	\$ 2,140.53	
22	Monthly Charge	Exhibit 12	\$ 1.38	\$ 2.44	\$ 178.38	
23	Total DERP Annual Charge - Excluding GRT	Line 19 + Line 21	\$ 11.95	\$ 33.21	\$ 1,194.68	
24	Total DERP Monthly Charge - Excluding GRT	Line 20 + Line 22	\$ 1.00	\$ 2.77	\$ 99.56	
25	Total DERP Annual Charge -Including GRT	Line 19 + Line 21 / (1-tax rate)	\$ 12.00	\$ 33.36	\$ 1,200.00	
26	Total DERP Monthly Charge - Including GRT	Line 20 + Line 22 / (1-tax rate)	\$ 1.00	\$ 2.78	\$ 100.00	

Notes:

[1] RECD factor is .7268% and is calculated on Exhibit 6

[2] The Fuel Cost Factors and Demand Fuel Cost Factor does not include GRT

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2018 - JUNE 2019

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Line No.	Description	Reference	Actual	Actual	Actual	Actual	Actual	Actual
			March 2018	April 2018	May 2018	June 2018	July 2018	August 2018
1	Coal	Monthly Fuel Filings	\$ 17,145,758	\$ 18,513,246	\$ 19,497,564	\$ 39,029,152	\$ 31,935,236	\$ 35,433,012
2	Gas	Monthly Fuel Filings	54,139,383	32,952,831	38,250,706	47,084,262	62,286,934	58,693,966
3	Nuclear Fuel	Monthly Fuel Filings	13,884,551	12,471,756	16,473,119	15,148,148	17,540,348	18,004,976
4	Purchased Power	Monthly Fuel Filings	32,456,208	37,568,010	41,090,991	44,202,762	49,508,674	45,979,132
5	Fuel Expense Recovered Through Intersystem Sales	Monthly Fuel Filings	(8,046,009)	(7,345,506)	(5,428,354)	(5,994,539)	(22,280,970)	(20,530,519)
6	Total Fuel Costs	Sum Lines 1 through 5	\$ 106,579,891	\$ 94,160,337	\$ 109,884,026	\$ 139,466,785	\$ 138,990,222	\$ 137,580,567
7	Eliminate Avoided Fuel Benefit of SC NEM	Monthly Fuel Filings	33,455	27,921	35,183	34,483	61,989	75,147
8	Adjusted System Fuel Costs	Line 6 + Line 7	\$ 106,613,346	\$ 94,188,258	\$ 109,919,209	\$ 139,501,268	\$ 139,052,211	\$ 137,655,714
9	Total System kWh Sales (w/ solar)	Monthly Fuel Filings	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072
10	Eliminate NEM Solar Generation kWh	Monthly Fuel Filings	1,044,569	871,805	1,098,547	1,076,721	1,549,719	1,878,670
11	Adjusted Projected System kWh Sales (w/o solar)	Line 9 + Line 10	4,655,007,428	4,494,917,309	4,645,798,507	5,678,869,273	6,166,184,653	6,202,355,742
12	System Cost per kWh (c/kWh)	Line 8 / Line 11 * 100	2.290	2.095	2.366	2.456	2.255	2.219
13	Actual/ Projected SC Retail Sales kWh (w/ solar)	Monthly Fuel Filings	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700
14	Eliminate the NEM Impact kWh	Monthly Fuel Filings	1,044,569	871,805	1,098,547	1,076,721	1,549,719	1,878,670
15	Adjusted Actual / Projected SC Retail Sales kWh (w/o solar)	Line 13 + Line 14	412,058,132	534,109,268	462,731,908	524,201,557	659,686,211	623,625,370
16	SC Base Fuel Costs	Line 12 * Line 15 / 100	\$ 9,437,342	\$ 11,191,936	\$ 10,948,198	\$ 12,876,998	\$ 14,876,432	\$ 13,840,805
17	Assign 100% of Avoided Fuel Benefit of SC NEM	Line 7, opposite sign	(33,455)	(27,921)	(35,183)	(34,483)	(61,989)	(75,147)
18	Adjusted SC Base Fuel Costs	Line 16 + Line 17	\$ 9,403,887	\$ 11,164,015	\$ 10,913,015	\$ 12,842,515	\$ 14,814,443	\$ 13,765,658
19	Fuel Costs Collected	Monthly Fuel Filings	\$ 9,084,719	\$ 11,785,525	\$ 10,201,659	\$ 11,560,996	\$ 15,005,367	\$ 14,677,864
20	Fuel Benefits Given in DER NEM incentive	Monthly Fuel Filings	(9,511)	(7,803)	(9,734)	(9,365)	(13,040)	(16,137)
21	Adjusted Fuel Costs Collected	Line 19 + Line 20	\$ 9,075,208	\$ 11,777,722	\$ 10,191,925	\$ 11,551,631	\$ 14,992,327	\$ 14,661,727
22	(Over) / Under Recovered Current Month	Line 18 - Line 21	\$ 328,679	\$ (613,707)	\$ 721,090	\$ 1,290,884	\$ (177,884)	\$ (896,069)
23	(Over) / Under Cumulative Balance - February 2018	2018-1-E	\$ 23,394,223					
24	Adjustment(s)	Monthly Fuel Filings				3,199		
25	(Over) / Under Recovered Cumulative Balance	Prior Mo Cum Bal + Line 22 + Line 23 + Line 24	\$ 23,722,902	\$ 23,109,195	\$ 23,830,285	\$ 25,124,368	\$ 24,946,484	\$ 24,050,415

DUKE ENERGY PROGRESS, LLC  
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Line No.	Description	Reference	Actual	Actual	Actual	Actual	Actual	Actual	Review Period
			September 2018	October 2018	November 2018	December 2018	January 2019	February 2019	Twelve Months Ended Feb 2019
26	Coal	Monthly Fuel Filings	\$ 24,647,231	\$ 14,927,507	\$ 20,375,712	\$ 35,857,484	\$ 38,643,375	\$ 9,782,506	\$ 305,787,783
27	Gas	Monthly Fuel Filings	53,283,254	53,740,493	54,521,926	62,784,227	61,270,115	47,778,009	623,783,106
28	Nuclear Fuel	Monthly Fuel Filings	13,468,704	13,744,614	14,082,897	16,323,865	16,837,287	15,434,029	183,414,294
29	Purchased Power	Monthly Fuel Filings	59,796,689	35,853,041	40,798,669	26,413,235	34,355,870	28,552,516	476,575,797
30	Fuel Expense Recovered Through Intersystem Sales	Monthly Fuel Filings	(14,060,575)	(22,249,737)	(18,902,399)	(24,995,583)	(9,878,607)	(68,338,601)	(228,051,399)
31	Total Fuel Costs	Sum Lines 26 through 30	\$ 137,135,303	\$ 96,015,918	\$ 110,876,805	\$ 116,383,228	\$ 141,228,040	\$ 33,208,459	\$ 1,361,509,581
32	Eliminate Avoided Fuel Benefit of SC NEM	Monthly Fuel Filings	64,483	45,792	63,753	67,763	74,728	66,656	651,353
33	Adjusted System Fuel Costs	Line 31 + Line 32	\$ 137,199,786	\$ 96,061,710	\$ 110,940,558	\$ 116,450,991	\$ 141,302,768	\$ 33,275,115	\$ 1,362,160,934
34	Total System kWh Sales (w/ solar)	Monthly Fuel Filings	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490
35	Eliminate NEM Solar Generation kWh	Monthly Fuel Filings	2,011,329	1,428,329	1,988,547	2,113,646	2,330,897	2,079,115	19,471,894
36	Adjusted Projected System kWh Sales (w/o solar)	Line 34 + Line 35	5,429,405,069	5,151,950,885	4,725,860,929	4,830,241,492	5,618,320,555	5,089,705,542	62,688,617,384
37	System Cost per kWh (c/kWh)	Line 33 / Line 36 * 100	2.527	1.865	2.348	2.411	2.515	0.654	
38	Actual/ Projected SC Retail Sales kWh (w/ solar)	Monthly Fuel Filings	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605
39	Eliminate the NEM Impact kWh	Monthly Fuel Filings	2,011,329	1,428,329	1,988,547	2,113,646	2,330,897	2,079,115	19,471,894
40	Adjusted Actual / Projected SC Retail Sales kWh (w/o solar)	Line 38 + Line 39	513,370,988	579,877,728	507,042,584	447,452,625	607,610,008	557,587,120	6,429,353,499
41	SC Base Fuel Costs	Line 37 * Line 40 / 100	\$ 12,972,764	\$ 10,812,223	\$ 11,902,929	\$ 10,787,514	\$ 15,281,609	\$ 3,645,353	\$ 138,574,103
42	Assign 100% of Avoided Fuel Benefit of SC NEM	Line 32, opposite sign	(64,483)	(45,792)	(63,753)	(67,763)	(74,728)	(66,656)	\$ (651,353)
43	Adjusted SC Base Fuel Costs	Line 41 + Line 42	\$ 12,908,281	\$ 10,766,431	\$ 11,839,176	\$ 10,719,751	\$ 15,206,881	\$ 3,578,697	\$ 137,922,750
44	Fuel Costs Collected	Monthly Fuel Filings	\$ 12,098,363	\$ 13,686,259	\$ 11,950,767	\$ 10,539,427	\$ 14,323,686	\$ 13,146,231	\$ 148,060,863
45	Fuel Benefits Given in DER NEM incentive	Monthly Fuel Filings	(17,696)	(10,922)	(16,926)	(17,922)	(20,051)	(16,051)	\$ (165,158)
46	Adjusted Fuel Costs Collected	Line 44 + Line 45	\$ 12,080,667	\$ 13,675,337	\$ 11,933,841	\$ 10,521,505	\$ 14,303,635	\$ 13,130,180	\$ 147,895,705
47	(Over) / Under Recovered Current Month	Line 43 - Line 46	\$ 827,614	\$ (2,908,906)	\$ (94,665)	\$ 198,246	\$ 903,246	\$ (9,551,483)	\$ (9,972,955)
48	Adjustment(s)	Monthly Fuel Filings						(70)	\$ 3,129
49	(Over) / Under Recovered Cumulative Balance	Prior Mo Cum Bal + Line 47 + Line 48	\$ 24,878,029	\$ 21,969,123	\$ 21,874,458	\$ 22,072,704	\$ 22,975,950	\$ 13,424,397	\$ 13,424,397



DUKE ENERGY PROGRESS, LLC  
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PROJECTED BILLING PERIOD BASE FUEL COSTS  
FOR THE 12 MONTHS JULY 2019 TO JUNE 2020

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Line No.	Description	Reference	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019
1	Coal	WP1	\$ 50,329,027	\$ 48,560,028	\$ 36,492,075	\$ 27,804,934	\$ 28,355,841	\$ 39,453,290
2	Gas	WP2	42,733,855	41,542,126	36,796,989	35,225,339	46,537,541	39,053,113
3	Nuclear Fuel	WP3	16,080,123	16,125,971	15,671,479	13,266,910	12,962,295	16,954,471
4	Purchased Power	WP5	34,346,947	35,527,201	30,048,140	27,871,007	23,855,906	23,039,833
5	Fuel Expense Recovered Through Intersystem Sales	WP6	(14,446,039)	(14,992,498)	(16,593,655)	(12,921,455)	(18,074,157)	(19,830,615)
6	Total Fuel Costs	Sum Lines 1 through 5	\$ 129,043,913	\$ 126,762,828	\$ 102,415,028	\$ 91,246,735	\$ 93,637,426	\$ 98,670,092
7	Eliminate Avoided Fuel Benefit of SC NEM	WP14	97,363	90,132	83,351	80,567	65,833	52,368
8	Adjusted System Fuel Costs	Line 6 + Line 7	\$ 129,141,276	\$ 126,852,960	\$ 102,498,379	\$ 91,327,302	\$ 93,703,259	\$ 98,722,460
9	Total Projected System Sales kWh (w/ solar)	WP8	5,953,609,386	6,010,985,735	5,482,284,590	4,671,693,496	4,595,842,719	5,172,638,730
10	Eliminate NEM Solar Generation kWh	WP14	3,032,181	2,806,978	2,595,784	2,509,088	2,050,225	1,630,890
11	Adjusted Projected System kWh Sales (w/o solar)	Line 9 + Line 10	5,956,641,567	6,013,792,713	5,484,880,374	4,674,202,584	4,597,892,944	5,174,269,620
12	System Cost per kWh (c/kWh)	Line 8 / Line 11 * 100	2.168	2.109	1.869	1.954	2.038	1.908
13	Adjusted Projected SC Retail Sales (w/o solar)	WP8	618,402,562	633,262,773	605,425,276	527,201,736	503,019,569	554,332,642
14	SC Base Fuel Costs	Line 12 * Line 13 / 100	\$ 13,407,101	\$ 13,357,836	\$ 11,313,849	\$ 10,300,776	\$ 10,251,342	\$ 10,576,388
15	Assign 100% of Avoided Fuel Benefit of SC NEM (Note 1)	WP14	(88,557)	(82,000)	(75,830)	(73,273)	(59,867)	(47,548)
16	Adjusted SC Base Fuel Costs	Line 14 + Line 15	\$ 13,318,544	\$ 13,275,836	\$ 11,238,019	\$ 10,227,503	\$ 10,191,475	\$ 10,528,840

Line No.	Description	Reference	Billing Period						Twelve Months Ended June 2020
			January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	
17	Coal	WP1	\$ 46,123,651	\$ 44,995,067	\$ 28,884,279	\$ 10,321,926	\$ 13,454,535	\$ 28,706,332	\$ 403,480,987
18	Gas	WP2	25,930,059	23,512,584	41,860,567	30,566,002	33,857,114	42,033,249	439,648,540
19	Nuclear Fuel	WP3	16,926,060	15,497,215	12,919,969	15,694,928	16,059,189	15,404,872	183,563,482
20	Purchased Power	WP5	31,036,153	28,507,690	30,811,390	31,787,324	34,752,429	34,226,552	365,810,573
21	Fuel Expense Recovered Through Intersystem Sales	WP6	(9,450,657)	(8,830,573)	(17,436,188)	(14,601,554)	(16,841,809)	(14,896,830)	(178,916,030)
22	Total Fuel Costs	Sum Lines 17 through 21	\$ 110,565,266	\$ 103,681,983	\$ 97,040,017	\$ 73,768,626	\$ 81,281,458	\$ 105,474,175	\$ 1,213,587,551
23	Eliminate Avoided Fuel Benefit of SC NEM	WP14	67,006	69,976	93,589	111,822	114,137	118,095	1,044,238
24	Adjusted System Fuel Costs	Line 22 + Line 23	\$ 110,632,272	\$ 103,751,959	\$ 97,133,606	\$ 73,880,448	\$ 81,395,595	\$ 105,592,270	\$ 1,214,631,789
25	Total Projected System Sales kWh (w/ solar)	WP8	5,679,535,820	5,466,072,140	5,022,976,178	4,423,919,449	4,396,701,438	5,136,235,584	62,012,495,267
26	Eliminate NEM Solar Generation kWh	WP14	2,086,766	2,179,249	2,914,645	3,482,451	3,554,566	3,677,823	32,520,646
27	Adjusted Projected System kWh Sales (w/o solar)	Line 25 + Line 26	5,681,622,586	5,468,251,389	5,025,890,823	4,427,401,900	4,400,256,004	5,139,913,407	62,045,015,912
28	System Cost per kWh (c/kWh)	Line 24 / Line 27 * 100	1.947	1.897	1.933	1.669	1.850	2.054	1.958
29	Adjusted Projected SC Retail Sales (w/o solar)	WP8	607,182,038	596,770,188	558,856,798	515,871,629	497,547,902	544,987,675	6,762,860,788
30	SC Base Fuel Costs	Line 28 * Line 29 / 100	\$ 11,823,018	\$ 11,322,829	\$ 10,800,827	\$ 8,608,396	\$ 9,203,603	\$ 11,196,003	\$ 132,161,967
31	Assign 100% of Avoided Fuel Benefit of SC NEM (Note 1)	WP14	(60,849)	(63,563)	(85,049)	(101,639)	(103,756)	(107,367)	(949,299)
32	Adjusted SC Base Fuel Costs	Line 30 + Line 31	\$ 11,762,169	\$ 11,259,266	\$ 10,715,778	\$ 8,506,757	\$ 9,099,847	\$ 11,088,636	\$ 131,212,669
33	Projected SC Retail Sales								6,730,340,143
34	Adjusted SC System Cost per kWh (c/kWh)	Line 32 / Line 33 * 100							1.950

Note 1: Equals total NEM avoided fuel benefit less portion included in DERP NEM Incentive.

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Line No.	Residential									
1	Winter 2018 Firm Coincident Peak (CP) kWh									
2	Winter 2017 Firm Coincident Peak (CP) kWh									
Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018		
3	Total Reagents	Monthly Fuel Filing	\$ 787,583	\$ 873,319	\$ 1,083,871	\$ 1,993,580	\$ 1,766,587	\$ 2,089,366		
4	Emission Allowances	Monthly Fuel Filing	833	3,744	(94,203)	1,451	2,619	2,002		
5	Amounts Recovered in Off-System Sales	Monthly Fuel Filing	(10,052)	(13,684)	(14,979)	(10,832)	(24,914)	(24,607)		
6	Net Environmental Costs	Sum Lines 3 thru 5	\$ 778,364	\$ 863,379	\$ 974,689	\$ 1,984,199	\$ 1,744,293	\$ 2,066,761		
7	Total System Sales kWh	Monthly Fuel Filing	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072		
8	Environmental System Costs Incurred c/kwh	Line 6 / Line 7 * 100	0.017	0.019	0.021	0.035	0.028	0.033		
9	SC Retail Sales kWh	Monthly Fuel Filing	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700		
10	SC Environmental Costs	Line 8 * Line 9 / 100	\$ 68,741	\$ 102,444	\$ 96,874	\$ 182,815	\$ 186,221	\$ 207,242		
11	SC Residential Environmental Cost Allocated by Firm CP	Line 10 * Line 2	\$ 40,635	\$ 60,558	\$ 57,266	\$ 108,069	\$ 110,082	\$ 122,509		
12	SC Residential kWh Sales	Monthly Fuel Filing	143,961,446	142,967,229	126,649,812	183,269,324	209,653,372	205,859,617		
13	SC Residential Environmental Costs Incurred c/kwh	Line 11 / Line 12 * 100	0.028	0.042	0.045	0.059	0.053	0.060		
14	SC Residential Environmental Costs Billed c/kwh	2017-1-E, 2018-1-E	0.035	0.035	0.035	0.035	0.028	0.019		
15	SC Residential Environmental Costs (Over) / Under Recovery	(Line 13 - Line 14) * Line 12 / 100	\$ (9,388)	\$ 10,886	\$ 13,284	\$ 44,416	\$ 52,174	\$ 82,556		
16	Prior Year Balance	2018-1-E	\$ (335,813)							
17	Adjusted Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 15	\$ (345,201)	\$ (334,315)	\$ (321,031)	\$ (276,615)	\$ (224,441)	\$ (141,885)		
Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019	
18	Total Reagents	Monthly Fuel Filing	\$ 1,446,270	\$ 894,255	\$ 1,161,039	\$ 2,048,497	\$ 2,028,239	\$ 579,414	\$ 16,752,021	
19	Emission Allowances	Monthly Fuel Filing	2,157	1,511	943	1,264	-	-	(77,679)	
20	Amounts Recovered in Off-System Sales	Monthly Fuel Filing	(10,487)	(20,664)	(69,630)	(195,638)	(78,656)	(74,208)	(548,351)	
21	Net Environmental Costs	Sum Lines 18 thru 20	\$ 1,437,940	\$ 875,102	\$ 1,092,352	\$ 1,854,122.70	\$ 1,949,583	\$ 505,206	\$ 16,125,991	
22	Total System Sales kWh	Monthly Fuel Filing	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490	
23	Environmental System Costs Incurred c/kwh	Line 21 / Line 22 * 100	0.026	0.017	0.023	0.038	0.035	0.010		
24	SC Retail Sales kWh	Monthly Fuel Filing	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605	
25	SC Environmental Costs	Line 23 * Line 24 / 100	\$ 135,480	\$ 98,282	\$ 116,789	\$ 171,021	\$ 210,122	\$ 55,162	\$ 1,631,193	
26	SC Residential Environmental Cost Allocated by Firm CP	Line 25 * Line 2 (or Line 1)	\$ 80,087	\$ 58,098	\$ 69,038	\$ 101,097	\$ 127,980	\$ 33,598	\$ 969,017	
27	SC Residential kWh Sales	Monthly Fuel Filing	192,472,913	166,363,331	135,084,422	188,450,930	199,934,867	206,574,763	2,101,242,026	
28	SC Residential Environmental Costs Incurred c/kwh	Line 26 / Line 27 * 100	0.042	0.035	0.051	0.054	0.064	0.016	0.046	
29	SC Residential Environmental Costs Billed c/kwh	2018-1-E	0.019	0.019	0.019	0.019	0.019	0.019		
30	SC Residential Environmental Costs (Over) / Under Recovery	(Line 28 - Line 29) * Line 27 / 100	\$ 43,796	\$ 26,868	\$ 43,556	\$ 65,540	\$ 90,257	\$ (5,378)	\$ 458,567	
31	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 30	\$ (98,089)	\$ (71,221)	\$ (27,665)	\$ 37,875	\$ 128,132	\$ 122,754	\$ 122,754	
32	Adjustment(s)									
33	Adjusted Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 31 + Line 32				\$			\$ 122,754	

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Line No.		Residential						
1	Winter 2018 Firm Coincident Peak (CP) kWs	60.91%						
2	Winter 2017 Firm Coincident Peak (CP) kWs	59.11%						
Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019	
34	Total Reagents	WP7	\$ 1,310,655	\$ 1,004,394	\$ 1,014,503	\$ 1,963,082	\$ 22,044,654	
35	Emission Allowances	WP7	-	1,173	1,431	2,889	(72,186)	
36	Amounts Recovered in Off-System Sales	WP7	(71,965)	(11,599)	(11,960)	(4,297)	(648,172)	
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 1,238,690	\$ 993,968	\$ 1,003,974	\$ 1,961,674	\$ 21,324,297	
38	Projected Total System Sales kWh	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312	
39	Environmental System Costs Incurred c/kwh	Line 37 / Line 38 * 100	0.027	0.022	0.023	0.038		
40	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314	
41	SC Environmental Costs	Line 39 * Line 40 / 100	\$ 113,201	\$ 113,241	\$ 110,876	\$ 203,930	\$ 2,172,442	
42	SC Residential Environmental Cost Allocated by Firm CP	Line 41 * Line 1	\$ 68,948	\$ 68,972	\$ 67,532	\$ 124,209	\$ 1,298,678	
43	Projected SC Residential kWh Sales	WP8a	150,838,802	161,472,415	138,607,950	171,939,263	2,724,100,457	
44	SC Residential Environmental Costs Incurred c/kwh	Line 42 / Line 43 * 100	0.046	0.043	0.049	0.072		
45	SC Residential Environmental Costs Billed c/kwh	2018-1-E	0.019	0.019	0.019	0.019		
46	SC Residential Environmental Costs (Over) / Under Recovery	(Line 44 - Line 45) * Line 43 / 100	\$ 40,490	\$ 38,508	\$ 41,381	\$ 91,770	\$ 670,716	
47	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 46	\$ 163,244	\$ 201,752	\$ 243,134	\$ 334,903	\$ 334,903	
48	Adjustment(s)							-
49	Adjusted Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 47 + Line 48					\$ 334,903	
50	SC Projected Residential kWh Sales July 2019 - June 2020	WP8a					2,301,521,005	
51	SC Residential Environmental Increment / (Decrement) Calculated Rate (c/kwh)	(Line 49 / Line 50 * 100)					0.015	





DUKE ENERGY PROGRESS, LLC  
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Line No.	General Service (non-demand)
1	Winter 2018 Firm Coincident Peak (CP) KWS
2	Winter 2017 Firm Coincident Peak (CP) KWS

Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
34	Total Reagents	WP7	\$ 1,310,655	\$ 1,004,394	\$ 1,014,503	\$ 1,963,082	\$ 22,044,654
35	Emission Allowances	WP7	-	1,173	1,431	2,889	(72,186)
36	Amounts Recovered in Off-System Sales	WP7	(71,965)	(11,599)	(11,960)	(4,297)	(648,172)
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 1,238,690	\$ 993,968	\$ 1,003,974	\$ 1,961,674	\$ 21,324,297
38	Projected Total System Sales	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
39	Environmental System Costs Incurred c/kwh	Line 37 / Line 38 * 100	0.027	0.022	0.023	0.038	8,368,739,314
40	Projected SC Retail Sales KWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
41	SC Environmental Costs	Line 39 * Line 40 / 100	\$ 113,201	\$ 113,241	\$ 110,876	\$ 203,930	\$ 2,172,442
42	SC General Service (non-demand) Environmental Cost Allocated by Firm CP	Line 41 * Line 1	\$ 7,206	\$ 7,208	\$ 7,058	\$ 12,981	\$ 125,930
43	Projected SC General Service (non-demand) KWh Sales	WP8a	18,802,778	23,902,363	24,173,210	25,241,053	389,612,876
44	SC General Service (non-demand) Environmental Costs Incurred c/kwh	Line 42 / Line 43 * 100	0.038	0.030	0.029	0.051	
45	SC General Service (non-demand) Environmental Costs Billed c/kwh	2018-1-E	0.008	0.008	0.008	0.008	
46	SC General Service (non-demand) Environmental Costs (Over) / Under Recovery	(Line 44 - Line 45) * Line 43 / 100	\$ 5,702	\$ 5,296	\$ 5,124	\$ 10,962	\$ 78,131
47	Cumulative SC General Service (non-demand) Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 46	\$ 8,833	\$ 14,129	\$ 19,253	\$ 30,215	\$ 30,215
48	Adjustment(s)						-
49	Adjusted Cumulative SC General Service (non-demand) Environmental Costs (Over) / Under Recovery	Line 47 + Line 48				\$	\$ 30,215
50	SC Projected General Service (non-demand) KWh Sales July 2019 - June 2020	WP8a					299,773,076
51	SC General Service (non-demand) Environmental Increment / (Decrement) Calculated Rate (c/kwh)	(Line 49 / Line 50 * 100)					0.010

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
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Line No.	General Service (demand)									
1	32.73%									
2	35.43%									
Winter 2018 Firm Coincident Peak (CP) kWs										
Winter 2017 Firm Coincident Peak (CP) kWs										
Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018		
3	Total Reagents	Monthly Fuel Filing	\$ 787,583	\$ 873,319	\$ 1,083,871	\$ 1,993,580	\$ 1,766,587	\$ 2,089,366		
4	Emission Allowances	Monthly Fuel Filing	833	3,744	(94,203)	1,451	2,619	2,002		
5	Amounts Recovered in Off-System Sales	Monthly Fuel Filing	(10,052)	(13,684)	(14,979)	(10,832)	(24,914)	(24,607)		
6	Net Environmental Costs	Sum Lines 3 thru 5	\$ 778,364	\$ 863,379	\$ 974,689	\$ 1,984,199	\$ 1,744,293	\$ 2,066,761		
7	Total System Sales kWh	Monthly Fuel Filing	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072		
8	Environmental System Costs Incurred c/kwh	Line 6 / Line 7 * 100	0.017	0.019	0.021	0.035	0.028	0.033		
9	SC Retail Sales kWh	Monthly Fuel Filing	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700		
10	SC Environmental Costs	Line 8 * Line 9 / 100	\$ 68,741	\$ 102,444	\$ 96,874	\$ 182,815	\$ 186,221	\$ 207,242		
11	SC General Service (demand) Environmental Cost Allocated by Firm CP	Line 10 * Line 2	\$ 24,352	\$ 36,291	\$ 34,318	\$ 64,763	\$ 65,969	\$ 73,416		
12	SC General Service (demand) kW Sales	Monthly Fuel Filing	657,929	666,086	652,200	669,014	703,175	805,885		
13	SC General Service (demand) Environmental Costs Incurred c / kW	Line 11 / Line 12 * 100	4	5	5	10	9	9		
14	SC General Service (demand) Environmental Costs Billed c / kW	2017-1-E, 2018-1-E	7	7	7	7	4	1		
15	SC General Service (demand) Environmental Costs (Over) / Under Recovery	(line 13 - Line 14) * Line 12 / 100	\$ (21,703)	\$ (10,335)	\$ (11,336)	\$ 17,932	\$ 35,654	\$ 63,688		
16	Prior Year Balance	2018-1-E	\$ (232,775)							
17	Adjusted Cumulative SC Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 15	\$ (254,478)	\$ (264,813)	\$ (276,149)	\$ (258,217)	\$ (222,563)	\$ (158,875)		
Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019	
18	Total Reagents	Monthly Fuel Filing	\$ 1,446,270	\$ 894,255	\$ 1,161,039	\$ 2,048,497	\$ 2,028,239	\$ 579,414	\$ 16,752,021	
19	Emission Allowances	Monthly Fuel Filing	2,157	1,511	943	1,264	-	-	(77,679)	
20	Amounts Recovered in Off-System Sales	Monthly Fuel Filing	(10,487)	(20,664)	(69,630)	(195,638)	(78,656)	(74,208)	(548,351)	
21	Net Environmental Costs	Sum Lines 18 thru 20	\$ 1,437,940	\$ 875,102	\$ 1,092,352	\$ 1,854,123	\$ 1,949,583	\$ 505,206	\$ 16,125,991	
22	Total System Sales kWh	Monthly Fuel Filing	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490	
23	Environmental System Costs Incurred c/kwh	Line 21 / Line 22 * 100	0.026	0.017	0.023	0.038	0.035	0.010	6,409,881,605	
24	SC Retail Sales kWh	Monthly Fuel Filing	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	1,631,493	
25	SC Environmental Costs	Line 23 * Line 24 / 100	\$ 135,480	\$ 98,282	\$ 116,789	\$ 171,021	\$ 210,122	\$ 55,162	\$ 570,699	
26	SC General Service (demand) Environmental Cost Allocated by Firm CP	Line 25 * Line 2 (or Line 1)	\$ 47,994	\$ 34,817	\$ 41,373	\$ 60,585	\$ 68,767	\$ 18,053.07	\$ 8,093,589	
27	SC General Service (demand) kW Sales	Monthly Fuel Filing	885,000	704,900	647,300	621,700	409,400	671,000	306,097	
28	SC General Service (demand) Environmental Costs Incurred c / kW	Line 26 / Line 27 * 100	5	5	6	10	17	3	7	
29	SC General Service (demand) Environmental Costs Billed c / kW	2018-1-E	1	1	1	1	1	1	1	
30	SC General Service (demand) Environmental Costs (Over) / Under Recovery	(Line 28 - Line 29) * Line 27 / 100	\$ 39,145	\$ 27,768	\$ 34,900	\$ 54,368	\$ 64,673	\$ 11,343	\$ 73,322	
31	Cumulative SC General Service (demand) Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 30	\$ (119,730)	\$ (91,962)	\$ (57,062)	\$ (2,694)	\$ 61,979	\$ 73,322	\$ -	
32	Adjusted Cumulative SC General Service (demand) Environmental Costs (Over) / Under Recovery	Line 31 + Line 32								
33	Costs (Over) / Under Recovery									

DUKE ENERGY PROGRESS, LLC  
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Line No.	General Service (demand)
1	Winter 2018 Firm Coincident Peak (CP) KWs
2	Winter 2017 Firm Coincident Peak (CP) KWs

Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
34	Total Reagents	WP7	\$ 1,310,655	\$ 1,004,394	\$ 1,014,503	\$ 1,963,082	\$ 22,044,654
35	Emission Allowances	WP7	-	1,173	1,431	2,889	(72,186)
36	Amounts Recovered in Off-System Sales	WP7	(71,965)	(11,599)	(11,960)	(4,297)	(648,172)
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 1,238,690	\$ 993,968	\$ 1,003,974	\$ 1,961,674	\$ 21,324,297
38	Projected Total System Sales kWh	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
39	Environmental System Costs Incurred c/kwh	Line 37 / Line 38 * 100	0.027	0.022	0.023	0.038	8,368,739,314
40	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	2,172,442
41	SC Environmental Costs	Line 39 * Line 40 / 100	\$ 113,201	\$ 113,241	\$ 110,876	\$ 203,930	\$ 747,834
42	SC General Service (demand) Environmental Cost Allocated by Firm CP	Line 41 * Line 1	\$ 37,048	\$ 37,061	\$ 36,286	\$ 66,740	\$ 11,031,096
43	Projected SC General Service (demand) kW Sales	WP8a	645,500	696,605	771,394	824,008	11,031,096
44	SC General Service (demand) Environmental Costs Incurred c / kW	Line 42 / Line 43 * 100	6	5	5	8	
45	SC General Service (demand) Environmental Costs Billed c / kW	2018-1-E	1	1	1	1	
46	SC General Service (demand) Environmental Costs (Over) / Under Recovery	(Line 44 - Line 45) * Line 43 / 100	\$ 30,592	\$ 30,095	\$ 28,573	\$ 58,500	\$ 453,856
47	Cumulative SC General Service (demand) Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 46	\$ 103,914	\$ 134,009	\$ 162,581	\$ 221,081	\$ -
48	Adjustment(s)						
49	Adjusted Cumulative SC General Service (demand) Environmental Costs (Over) / Under Recovery	Line 47 + Line 48					\$ 221,081
50	SC Projected General Service (demand) kW Sales July 2019 - June 2020	WP8a					9,063,849
51	SC General Service (demand) Environmental Increment / (Decrement) Calculated Rate (c/kw)	(Line 49 / Line 50*100)					2

**DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
PROJECTED BILLING PERIOD ENVIRONMENTAL COSTS  
FOR THE 12 MONTHS JULY 2019 TO JUNE 2020**

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Line No.	Class	Winter 2018 Firm						
		Coincident Peak (CP) KWs	CP %					
1	Residential	777,822	60.91%					
2	General Service (non-demand)	81,290	6.37%					
3	General Service (demand)	417,943	32.73%					
4	Total SC	1,277,055	100.00%					
Line No.	Description	Reference	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019

Line No.	Description	Reference	2019	2019	2019	2019	2019	2019
5	Total Reagents	WP7	\$ 2,513,711	\$ 2,483,623	\$ 1,823,252	\$ 1,229,970	\$ 1,398,731	\$ 2,122,014
6	Emission Allowances	WP7	3,700	3,751	2,849	1,874	2,206	3,415
7	Estimated Amounts Recovered in Off-system Sales	WP7	(4,637)	(2,612)	(4,322)	(1,704)	(7,443)	(22,150)
8	Net Environmental Costs	Sum Lines 5 through 7	\$ 2,512,774	\$ 2,484,762	\$ 1,821,779	\$ 1,230,140	\$ 1,393,494	\$ 2,103,279
9	Total Projected System Sales kWh (w/ solar)	WP8	5,953,609,386	6,010,985,735	5,482,284,590	4,671,693,496	4,595,842,719	5,172,638,730
10	Environmental System Costs Incurred c/kWh	Line 8 / Line 9 * 100	0.042	0.041	0.033	0.026	0.030	0.041
11	Projected SC Retail Sales	WP8	615,370,381	630,455,795	602,829,492	524,692,648	500,969,344	552,701,752
12	SC Environmental Costs	Line 10 * Line 11 / 100	259,723	260,612	200,322	138,161	151,898	224,738

					Billing Period
Line No.	Description	Reference	January 2020	February 2020	March 2020
			April 2020	May 2020	June 2020
					Twelve Months Ended June 2020

13	Total Reagents	WP7	\$	2,629,502	\$	2,587,287	\$	1,603,961	\$	427,009	\$	588,162	\$	1,448,839	\$	20,856,061
14	Emission Allowances	WP7		3,607		3,570		2,229		575		849		2,073		30,698
15	Estimated Amounts Recovered in Off-system Sales	WP7		(125,273)		(84,354)		(23,636)		(15,317)		(19,248)		(9,697)		(320,393)
16	Net Environmental Costs	Sum Lines 13 thru 15	\$	2,507,836	\$	2,506,503	\$	1,582,554	\$	412,267	\$	569,763	\$	1,441,215	\$	20,566,366
17	Total Projected System Sales kWh (w/ solar)	WP8		5,679,535,820		5,466,072,140		5,022,976,178		4,423,919,449		4,396,701,438		5,136,235,584		62,012,495,267
18	Environmental System Costs Incurred c/kWh	Line 16 / Line 17 *100		0.044		0.046		0.032		0.009		0.013		0.028		
19	Projected SC Retail Sales	WP8		605,095,272		594,590,939		555,942,153		512,389,178		493,993,336		541,309,853		6,730,340,143
20	SC Environmental Costs	Line 18 * Line 19 / 100		267,184		272,654		175,157		47,750		64,016		151,890		2,214,102

SC Environmental Costs Allocated on Firm CP kW/s	
21	Residential
22	General Service (Non-demand)
23	General Service (Demand)
24	Total SC
	Total Line 20 * Line 1
	Total Line 20 * Line 2
	Total Line 20 * Line 3
	Sum Lines 21 through 23
	\$ 1,348,554
	140,937
	724,611
	\$ 2,214,102

Projected SC Retail Sales kWh (July 2019-June 2020)	
25	Residential WP8a 2,301,521,005
26	General Service (non-demand) WP8a 299,773,076
27	General Service (demand) WP8a 4,032,970,877
28	Lighting WP8a 96,075,184
29	Total SC Sum Lines 25 through 28 <hr/> 6,730,340,143

	Projected Average Environmental Fuel Cost ¢/kWh
30 Residential	Line 21 / Line 25 * 100 0.059
31 General Service (non-demand)	Line 22 / Line 26 * 100 0.047

Projected Average Environmental Fuel Cost ¢/kW	
32	Projected SC kW sales General Service (demand)
33	General Service (demand) (¢/kW)
	WP8a
	Line 23 / Line 32 * 100
	9,063,849
	8

### Residential Adjustment Factor

**Notes:**

- (a) Energy billed and discounted pursuant to Residential Energy Conservation Discount, Rider RECD-2C.
- (b) Five-percent discount provided under Residential Energy Conservation Discount, Rider RECD-2C.



DUKE ENERGY PROGRESS, LLC  
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Line No.	Residential						
1	Winter 2018 Firm Coincident Peak (CP) kWs	60.91%					
2	Winter 2017 Firm Coincident Peak (CP) kWs	59.11%					
Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
32	PURPA Purchased Power Capacity Costs	WP 11	\$ 4,340,213	\$ 6,895,799	\$ 7,360,415	\$ 7,026,331	\$ 95,808,749
33	Firm Natural Gas Transportation and Storage Costs	WP 11	11,128,452	13,289,963	11,592,740	12,570,091	176,639,265
34	Total Capacity Related Costs	Line 32 + Line 33	\$ 15,468,664	\$ 20,185,762	\$ 18,953,155	\$ 19,596,421	\$ 272,448,014
35	Projected Total System kWh Sales	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
36	Capacity Related System Costs Incurred (c/kWh)	Line 34 / Line 35 * 100	0.340	0.450	0.426	0.377	
37	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
38	SC Capacity Related Costs Incurred	Line 36 * Line 37 / 100	\$ 1,413,651	\$ 2,299,735	\$ 2,093,130	\$ 2,037,188	\$ 28,074,799
39	SC Residential Capacity Related Costs Allocated by Firm CP	Line 38 * Line 1	\$ 861,019	\$ 1,400,711	\$ 1,274,873	\$ 1,240,800	\$ 16,795,080
40	Projected SC Residential kWh Sales	WP8a	150,838,802	161,472,415	138,607,950	171,939,263	2,724,100,457
41	SC Residential Capacity Related Cost Incurred (c/kWh)	Line 39 / Line 40 * 100	0.571	0.867	0.920	0.722	
42	SC Residential Non-Fuel Base Rates Billed (c/kWh)	2018-1-E	0.676	0.676	0.676	0.676	
43	SC Capacity Related (Over) / Under Recovery	(Line 41 - Line 42)*Line 40 /100	\$ (158,950)	\$ 309,157	\$ 337,883	\$ 78,491	\$ (143,891)
44	Adjusted Cumulative SC Residential Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 43	\$ 202,811	\$ 511,968	\$ 849,851	\$ 928,342	928,342
45	Adjustment(s)						-
46	Adjusted Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 44 + Line 45				\$	928,342
47	SC Projected Residential kWh Sales July 2019 - June 2020	WP8a					2,301,521,005
48	SC Projected Residential Capacity Related Increment / (Decrement) Calculated Rate (c/kWh)						0.040



DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)  
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Line No.	General Service (non-demand)
1	Winter 2018 Firm Coincident Peak (CP) kWs
2	Winter 2017 Firm Coincident Peak (CP) kWs

Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018	Review Period Twelve Months Ended Feb 2019
3	PURPA Purchased Power Capacity Costs	Monthly Fuel Filing	\$ 3,501,027	\$ 5,769,066	\$ 5,660,960	\$ 9,096,212	\$ 9,511,571	\$ 9,360,396	
4	Firm Natural Gas Transportation and Storage Costs	Monthly Fuel Filing	11,019,595	10,681,190	10,961,570	10,765,277	10,589,252	10,930,096	
5	Total Capacity Related Costs	Lines 3 + Line 4	\$ 14,520,622	\$ 16,450,256	\$ 16,622,530	\$ 19,861,489	\$ 20,100,823	\$ 20,290,492	
6	Total System kWh Sales	Monthly Fuel Filings	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072	
7	Capacity Related System Costs Incurred (c/kWh)	Line 5 / Line 6 * 100	0.312	0.366	0.358	0.350	0.326	0.327	
8	SC Retail Sales kWh	Monthly Fuel Filings	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700	
9	SC Capacity Related Costs Incurred	Line 7 * Line 8 / 100	\$ 1,282,385	\$ 1,951,892	\$ 1,652,101	\$ 1,829,943	\$ 2,145,964	\$ 2,034,609	
10	SC General Service (non-demand) Capacity Related Cost Allocated by Firm CP	Line 9 * Line 2	\$ 70,030	\$ 106,591	\$ 90,219	\$ 99,931	\$ 117,189	\$ 111,108	
11	SC General Service (non-demand) kWh Sales	Monthly Fuel Filing	18,983,274	19,396,612	19,878,431	27,515,526	30,997,729	31,253,114	
12	SC General Service (non-demand) Capacity Related Cost Incurred (c/kWh)	Line 10 / Line 11 * 100	0.369	0.550	0.454	0.363	0.378	0.356	
13	SC General Service (non-demand) Non-Fuel Base Rates Billed (c/kWh)	2017-1-E, 2018-1-E	0.371	0.371	0.371	0.371	0.396	0.424	
14	SC Capacity Related (Over) / Under Recovery	(Line 12 - Line 13)*Line 11 / 100	\$ (398)	\$ 34,630	\$ 16,470	\$ (2,152)	\$ (5,454)	\$ (21,437)	
15	Prior Year Balance	2018-1-E	\$ (34,323)						
16	Adjusted Cumulative SC General Service (non-demand) Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 14	\$ (34,721)	\$ (91)	\$ 16,379	\$ 14,227	\$ 8,773	\$ (12,664)	

Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
17	PURPA Purchased Power Capacity Costs	Monthly Fuel Filing	\$ 9,533,487	\$ 2,509,771	\$ 3,787,242	\$ 2,047,397	\$ 4,233,736	\$ 5,175,127	\$ 70,185,992
18	Firm Natural Gas Transportation and Storage Costs	Monthly Fuel Filing	10,231,278	9,779,505	11,410,673	11,126,924	10,513,351	10,049,308	128,058,019
19	Total Capacity Related Costs	Line 17 + Line 18	\$ 19,764,765	\$ 12,289,276	\$ 15,197,915	\$ 13,174,321	\$ 14,747,087	\$ 15,224,435	\$ 198,244,011
20	Total System kWh Sales	Monthly Fuel Filings	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490
21	Capacity Related System Costs Incurred (c/kWh)	Line 19 / Line 20 * 100	0.364	0.239	0.322	0.273	0.263	0.299	
22	SC Retail Sales kWh	Monthly Fuel Filings	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605
23	SC Capacity Related Costs Incurred	Line 21 * Line 22 / 100	\$ 1,862,202	\$ 1,380,195	\$ 1,624,889	\$ 1,215,179	\$ 1,589,409	\$ 1,662,326	\$ 20,231,095
24	SC General Service (non-demand) Capacity Related Cost Allocated by Firm CP	Line 23 * Line 2 or (Line 1)	\$ 101,693	\$ 75,371	\$ 88,733	\$ 66,360	\$ 101,173	\$ 105,814	\$ 1,134,212
25	SC General Service (non-demand) kWh Sales	Monthly Fuel Filing	29,398,859	25,905,784	43,187,370	1,109,696	24,675,505	25,191,572	297,493,472
26	SC General Service (non-demand) Capacity Related Cost Incurred (c/kWh)	Line 24 / Line 25 * 100	0.346	0.291	0.205	0.426	0.410	0.420	0.381
27	SC General Service (non-demand) Non-Fuel Base Rates Billed (c/kWh)	2018-1-E	0.426	0.426	0.426	0.426	0.426	0.426	
28	SC Capacity Related (Over) / Under Recovery	(Line 26 - Line 27)*Line 25 / 100	\$ (23,546)	\$ (34,886)	\$ (95,245)	\$ 61,633	\$ (3,835)	\$ (1,502)	\$ (75,722)
29	Adjusted Cumulative SC General Service (non-demand) Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 28	\$ (36,210)	\$ (71,096)	\$ (166,341)	\$ (104,708)	\$ (108,543)	\$ (110,045)	
30	Adjustment(s)								-
31	Adjusted Cumulative SC General Service (non-demand) Capacity Related (Over) / Under Recovery	Line 29 + Line 30						\$	\$ (110,045)

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2018 - JUNE 2019

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Line No.	Description	General Service (non-demand)					Sixteen Months Ended June 2019
		Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019		
1	Winter 2018 Firm Coincident Peak (CP) KWS	6.37%					
2	Winter 2017 Firm Coincident Peak (CP) KWS	5.46%					
32	PURPA Purchased Power Capacity Costs	WP 11	\$ 4,340,213	\$ 6,895,799	\$ 7,360,415	\$ 7,026,331	\$ 95,808,749
33	Firm Natural Gas Transportation and Storage Costs	WP 11	11,128,452	13,289,963	11,592,740	12,570,091	176,639,265
34	Total Capacity Related Costs	Line 32 + Line 33	\$ 15,468,664	\$ 20,185,762	\$ 18,953,155	\$ 19,596,421	\$ 272,448,014
35	Total Projected System kWh Sales	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
36	Capacity Related System Costs Incurred (c/kWh)	Line 34 / Line 35 * 100	0.340	0.450	0.426	0.377	
37	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
38	SC Capacity Related Costs Incurred	Line 36 * Line 37 / 100	\$ 1,413,651	\$ 2,299,735	\$ 2,093,130	\$ 2,037,188	\$ 28,074,799
39	SC General Service (non-demand) Capacity Related Cost Allocated by Firm CP	Line 38 * Line 1	\$ 89,985	\$ 146,388	\$ 133,237	\$ 129,676	\$ 1,633,497
40	Projected SC General Service (non-demand) kWh Sales	WP8a	18,802,778	23,902,363	24,173,210	25,241,053	389,612,876
41	SC General Service (non-demand) Capacity Related Cost Incurred (c/kWh)	Line 39 / Line 40 * 100	0.479	0.612	0.551	0.514	
42	SC General Service (non-demand) Non-Fuel Base Rates Billed (c/kWh)	2018-1-E	0.426	0.426	0.426	0.426	
43	SC Capacity Related (Over) / Under Recovery	(Line 41 - Line 42)*Line 40 /100	\$ 9,884	\$ 44,564	\$ 30,259	\$ 22,149	\$ 31,134
44	Adjusted Cumulative SC General Service (non-demand) Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 43	\$ (100,161)	\$ (55,597)	\$ (25,338)	\$ (3,189)	(3,189)
45	Adjustment(s)						-
46	Adjusted Cumulative SC General Service (non-demand) Capacity Related (Over) / Under Recovery	Line 44 + Line 45					\$ (3,189)
47	SC Projected General Service (non-demand) kWh Sales July 2019 - June 2020	WP8a					299,773,076
48	SC Projected General Service (non-demand) Capacity Related Increment / (Decrement) Calculated Rate (c/kWh)	(Line 46 / Line 47 * 100)					(0.001)

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (DEMAND)  
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Line No.		General Service (demand)		Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018	Review Period Twelve Months Ended Feb 2019
		32.73%	35.43%							
1	Winter 2018 Firm Coincident Peak (CP) KWS									
2	Winter 2017 Firm Coincident Peak (CP) KWS									
Line No.	Description	Reference								
3	PURPA Purchased Power Capacity Costs	Monthly Fuel Filing	\$	3,501,027	\$	5,769,066	\$	5,660,960	\$	9,096,212
4	Firm Natural Gas Transportation and Storage Costs	Monthly Fuel Filing		11,019,595		10,681,190		10,961,570		10,765,277
5	Total Capacity Related Costs	Lines 3 + Line 4	\$	14,520,622	\$	16,450,256	\$	16,622,530	\$	19,861,489
6	Total System kWh Sales	Monthly Fuel Filings		4,653,962,859		4,494,045,504		4,644,699,960		5,677,792,552
7	Capacity Related System Costs Incurred (c/kWh)	Line 5 / Line 6 * 100		0.312		0.366		0.358		0.350
8	SC Retail Sales kWh	Monthly Fuel Filings		411,013,563		533,237,463		461,633,361		523,124,836
9	SC Capacity Related Costs Incurred	Line 7 * Line 8 / 100	\$	1,282,385.09	\$	1,951,892	\$	1,652,101	\$	1,829,943
10	SC General Service (demand) Capacity Related Cost Allocated by Firm CP	Line 9 * Line 2	\$	454,290	\$	691,466	\$	585,264	\$	648,265
11	SC General Service (demand) kW Sales	Monthly Fuel Filing		657,929		666,086		652,200		669,014
12	SC General Service (demand) Capacity Related Costs Incurred (c/kW)	Line 10 / Line 11 * 100		69		104		90		97
13	SC General Service (demand) Non-Fuel Base Rates Billed (c/kW)	2017-1-E, 2018-1-E		96		96		96		96
14	SC General Service (demand) Capacity Related Costs (Over) / Under Recovery	(Line 12 - Line 13)*Line 11 /100	\$	(177,328)	\$	52,027	\$	(40,847)	\$	5,910
15	Prior Year Balance	2018-1-E	\$	584,157						
16	Adjusted Cumulative SC General Service (demand) Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 14	\$	406,829	\$	458,856	\$	418,009	\$	423,919
Line No.	Description	Reference								
17	PURPA Purchased Power Capacity Costs	Monthly Fuel Filing	\$	9,533,487	\$	2,509,771	\$	3,787,242	\$	2,047,397
18	Firm Natural Gas Transportation and Storage Costs	Monthly Fuel Filing		10,231,278		9,779,505		11,410,673		11,126,924
19	Total Capacity Related Costs	Line 17 + Line 18	\$	19,764,765	\$	12,289,276	\$	15,197,915	\$	13,174,321
20	Total System kWh Sales	Monthly Fuel Filings		5,427,393,740		5,150,522,556		4,723,872,382		4,828,127,846
21	Capacity Related System Costs Incurred (c/kWh)	Line 19 / Line 20 * 100		0.364		0.239		0.322		0.273
22	SC Retail Sales kWh	Monthly Fuel Filings		511,359,659		578,449,399		505,054,037		445,338,979
23	SC Capacity Related Costs Incurred	Line 21 * Line 22 / 100	\$	1,862,202	\$	1,380,195	\$	1,624,889	\$	1,215,179
24	SC General Service (demand) Capacity Related Cost Allocated by Firm CP	Line 23 * Line 2 or (Line 1)	\$	659,693	\$	488,940	\$	575,624	\$	430,482
25	SC General Service (demand) kW Sales	Monthly Fuel Filing		885,000		704,900		647,300		621,700
26	SC General Service (demand) Capacity Related Costs Incurred (c/kW)	Line 24 / Line 25 * 100		75		69		89		69
27	SC General Service (demand) Non-Fuel Base Rates Billed (c/kW)	2018-1-E		89		88		89		88
28	SC General Service (demand) Capacity Related Costs (Over) / Under Recovery	(Line 26 - Line 27)*Line 25 /100	\$	(124,855)	\$	(131,300)	\$	2,695	\$	(116,635)
29	Adjusted Cumulative SC General Service (demand) Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 28	\$	454,674	\$	323,374	\$	326,069	\$	209,434
30	Adjustment(s)									
31	Adjusted Cumulative SC General Service (demand) Capacity Related (Over) / Under Recovery	Line 29 + Line 30								

\$ 323,213

DUKE ENERGY PROGRESS, LLC  
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Line No.	General Service (demand)
1	Winter 2018 Firm Coincident Peak (CP) kW
2	Winter 2017 Firm Coincident Peak (CP) kW

Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
32	PURPA Purchased Power Capacity Costs	WP 11	\$ 4,340,213	\$ 6,895,799	\$ 7,360,415	\$ 7,026,331	\$ 95,808,749
33	Firm Natural Gas Transportation and Storage Costs	WP 11	11,128,452	13,289,963	11,592,740	12,570,091	176,639,265
34	Total Capacity Related Costs	Line 32 + Line 33	\$ 15,468,664	\$ 20,185,762	\$ 18,953,155	\$ 19,596,421	\$ 272,448,014
35	Total Projected System kWh Sales	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
36	Capacity Related System Costs Incurred (c/kWh)	Line 34 / Line 35 * 100	0.340	0.450	0.426	0.377	8,368,739,314
37	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	28,074,799
38	SC Capacity Related Costs Incurred	Line 36 * Line 37 / 100	\$ 1,413,651	\$ 2,299,735	\$ 2,093,130	\$ 2,037,188	\$ 9,646,224
39	SC General Service (demand) Capacity Related Cost Allocated by Firm CP	Line 38 * Line 1	\$ 462,647	\$ 752,636	\$ 685,021	\$ 666,713	\$ 9,646,224
40	Projected SC General Service (demand) kW Sales	WP8a	645,500	696,605	771,394	824,008	11,031,096
41	SC General Service (demand) Capacity Related Costs Incurred (c/kW)	Line 39 / Line 40 * 100	72	108	89	81	(278,951)
42	SC General Service (demand) Non-Fuel Base Rates Billed (c/kW)	2018-1-E	88	88	88	88	(278,951)
43	SC General Service (demand) Capacity Related Costs (Over) / Under Recovery	(Line 41 - Line 42)*Line 40 /100	\$ (105,411)	\$ 139,624	\$ 6,194	\$ (58,414)	\$ (278,951)
44	Adjusted Cumulative SC General Service (demand) Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 43	\$ 217,802	\$ 357,426	\$ 363,620	\$ 305,206	\$ 305,206
45	Adjustment(s)						-
46	Adjusted Cumulative SC General Service (demand) Capacity Related Costs (Over) / Under Recovery	Line 44 + Line 45					\$ 305,206
47	SC Projected General Service (demand) kW Sales July 2019 - June 2020	WP8a					9,063,849
48	SC General Service (demand) Environmental Capacity Related Increment / (Decrement) Calculated Rate (c/kW)	(Line 46 / Line 47 * 100)					3

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
PROJECTED CAPACITY RELATED COSTS  
FOR THE 12 MONTHS JULY 2019 TO JUNE 2020

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Line No.	Class	Winter 2018 Firm Coincident Peak (CP) KWS	CP %
1	Residential	777,822	60.91%
2	General Service (non-demand)	81,290	6.37%
3	General Service (demand)	417,943	32.73%
4	Lighting	0	0.00%
5	Total SC	1,277,055	100.00%

Line No.	Description	Reference	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019
6	PURPA Purchased Power Capacity Costs	WP 11	\$ 7,019,425	\$ 7,039,482	\$ 6,319,877	\$ 6,113,809	\$ 5,391,156	\$ 5,198,877
7	Firm Natural Gas Transportation and Storage Costs	WP 11	12,505,745	12,533,366	12,494,887	12,772,631	13,204,814	12,442,182
8	Total Capacity Related Costs	Line 6 + Line 7	\$ 19,525,170	\$ 19,572,848	\$ 18,814,763	\$ 18,886,440	\$ 18,595,970	\$ 17,641,060
9	Total Projected System Sales kWh (w/ solar)	WP8	5,953,609,386	6,010,985,735	5,482,284,590	4,671,693,496	4,595,842,719	5,172,638,730
10	Capacity Related System Costs Incurred (c/kwh)	Line 8 / Line 9 * 100	0.328	0.326	0.343	0.404	0.405	0.341
11	Projected SC Retail Sales	WP8	615,370,381	630,455,795	602,829,492	524,692,648	500,969,344	552,701,752
12	SC Purchased Power Capacity Costs	Line 10 * Line 11 /100	\$ 2,018,139	\$ 2,052,877	\$ 2,068,863	\$ 2,121,196	\$ 2,027,052	\$ 1,884,965

Line No.	Description	Reference	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	Billing Period Twelve Months Ended June 2020
13	PURPA Purchased Power Capacity Costs	WP 11	\$ 5,668,143	\$ 5,649,634	\$ 6,865,836	\$ 7,138,992	\$ 7,756,554	\$ 7,371,349	\$ 77,533,133
14	Firm Natural Gas Transportation and Storage Costs	WP 11	11,945,915	11,916,756	12,815,891	12,433,847	11,556,092	12,160,411	148,782,538
15	Total Capacity Related Costs	Line 13 + Line 14	\$ 17,614,058	\$ 17,566,391	\$ 19,681,727	\$ 19,572,840	\$ 19,312,645	\$ 19,531,760	\$ 226,315,671
16	Total Projected System Sales kWh (w/ solar)	WP8	5,679,535,820	5,466,072,140	5,022,976,178	4,423,919,449	4,396,701,438	5,136,235,584	62,012,495,267
17	Capacity Related System Costs Incurred (c/kwh)	Line 15 / Line 16 * 100	0.310	0.321	0.392	0.442	0.439	0.380	
18	Projected SC Retail Sales	WP8	605,095,272	594,590,939	555,942,153	512,389,178	493,993,336	541,309,853	6,730,340,143
19	SC Purchased Power Capacity Costs	Line 17 * Line 18 /100	\$ 1,876,594	\$ 1,910,845	\$ 2,178,370	\$ 2,266,974	\$ 2,169,881	\$ 2,058,460	\$ 24,634,216

20	Residential	Total Line 19 * Line 1							\$	15,004,080
21	General Service (non-demand)	Total Line 19 * Line 2								1,568,073
22	General Service (demand)	Total Line 19 * Line 3								8,062,063
23	Lighting	Total Line 19 * Line 4								-
24	Total SC	Sum Lines 20 through 23							\$	24,634,216

25	Residential	WP8a							2,301,521,005
26	General Service (non-demand)	WP8a							299,773,076
27	General Service (demand)	WP8a							4,032,970,877
28	Lighting	WP8a							96,075,184
29	Total SC	Sum Lines 25 through 28							6,730,340,143

30	Residential	Line 20 / Line 25 * 100							0.652
31	General Service (non-demand)	Line 21 / Line 26 * 100							0.523
32	Lighting	Line 23 / Line 28 * 100							0.000
33	Projected SC KW Sales (General Service demand)	WP8a							9,063,849
34	General Service Demand charge for Capacity Related Costs c/kW	Line 22 / Line 33 * 100							89

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL (OVER) / UNDER RECOVERY  
ACTUAL AND ESTIMATED COSTS MARCH 2018 - JUNE 2019

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Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018
<b>DERP Incremental Costs</b>								
1	Purchased Power Agreements	Monthly Fuel Filing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	DER NEM Incentive	Monthly Fuel Filing	24,186	22,698	29,771	91,945	48,033	53,650
3	Solar Rebate Program - Amortization	Monthly Fuel Filing	50,020	57,739	62,207	67,717	74,720	75,168
4	Solar Rebate Program - Carrying Costs	Monthly Fuel Filing	48,869	52,675	58,593	63,354	69,382	67,150
5	Shared Solar Program	Monthly Fuel Filing	-	-	-	-	-	-
5	NEM Avoided Capacity Costs	Monthly Fuel Filing	1,307	237	2,228	5,468	1,940	2,351
6	NEM Meter Costs	Monthly Fuel Filing	3,320	3,597	5,323	6,296	9,389	9,691
7	General and Administrative Expenses	Monthly Fuel Filing	35,802	26,444	24,650	25,156	51,552	27,112
8	Interest on under-collection due to cap	ORS AIR 1-81		-	27	25	51	38
9	Total DER Incremental Costs	Sum Lines 1 through 8	\$ 163,504	\$ 163,390	\$ 182,799	\$ 259,961	\$ 255,067	\$ 235,160
10	Revenue Collected	Monthly Fuel Filing	256,291	256,062	256,432	255,244	213,306	174,342
11	SC DERP Incremental Costs (Over) / Under Recovery	Line 9 - Line 10	\$ (92,787)	\$ (92,672)	\$ (73,633)	\$ 4,717	\$ 41,761	\$ 60,818
12	(Over) / Under Cumulative Balance - February 2018	2018-1-E	(448,552)					
13	Adjustments							
	Cumulative SC DERP Incremental Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 11 + Line 13	\$ (541,339)	\$ (634,011)	\$ (707,644)	\$ (702,927)	\$ (661,166)	\$ (600,348)

Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
<b>DERP Incremental Costs</b>									
15	Purchased Power Agreements	Monthly Fuel Filing	\$ -	\$ -	\$ -	\$ -	\$ 56,557	\$ 4,087	\$ 60,644
16	DER NEM Incentive	Monthly Fuel Filing	58,504	55,356	62,396	66,475	72,360	76,526	661,901
17	Solar Rebate Program - Amortization	Monthly Fuel Filing	75,168	75,168	77,317	77,317	77,317	77,317	847,174
18	Solar Rebate Program - Carrying Costs	Monthly Fuel Filing	72,014	71,404	72,070	72,724	72,288	71,853	792,376
19	Shared Solar Program	Monthly Fuel Filing	-	(5)	(147)	219	(79)	(250)	(262)
20	NEM Avoided Capacity Costs	Monthly Fuel Filing	2,529	1,797	2,501	2,658	2,710	2,419	28,145
21	NEM Meter Costs	Monthly Fuel Filing	7,206	7,376	7,522	7,736	7,824	8,510	83,790
22	General and Administrative Expenses	Monthly Fuel Filing	24,208	27,419	32,345	42,639	44,132	16,918	378,377
23	Interest on under-collection due to cap	ORS AIR 1-81	50	43	55	66	37	33	425
24	Total DER Incremental Costs	Sum Lines 15 through 23	\$ 239,679	\$ 238,558	\$ 254,058	\$ 269,834	\$ 333,146	\$ 257,413	\$ 2,852,570
25	Revenue Collected	Monthly Fuel Filing	157,397	172,809	164,964	157,891	167,477	165,563	2,397,778
26	SC DERP Incremental Costs (Over) / Under Recovery	Line 24 - Line 25	\$ 82,282	\$ 65,749	\$ 89,094	\$ 111,943	\$ 165,669	\$ 91,850	\$ 454,792
27	Adjustments								-
	Cumulative SC DERP Incremental Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 26 + Line 27	\$ (518,066)	\$ (452,317)	\$ (363,223)	\$ (251,280)	\$ (85,611)	\$ 6,239	\$ 6,239

**DUKE ENERGY PROGRESS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL (OVER) / UNDER RECOVERY**  
**ACTUAL AND ESTIMATED COSTS MARCH 2018 - JUNE 2019**

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Line No.	Description	Reference	Estimated	Estimated	Estimated	Estimated	Sixteen Months
			March 2019	April 2019	May 2019	June 2019	Ended June 2019
<u>DERP Incremental Costs</u>							
29	Purchased Power Agreements	DERP Model Output	\$ 2,642	\$ 5,028	\$ 5,028	\$ 5,028	78,369
30	DER NEM Incentive	DERP Model Output	81,081	86,646	90,495	96,857	1,016,980
31	Solar Rebate Program - Amortization	DERP Model Output	77,317	77,858	77,858	80,675	1,160,882
32	Solar Rebate Program - Carrying Costs	DERP Model Output	71,417	71,256	71,092	72,082	1,078,222
33	Shared Solar Program	DERP Model Output	249	10,212	10,212	10,212	30,624
34	NEM Avoided Capacity Costs	DERP Model Output	2,909	3,123	3,212	3,377	40,766
35	NEM Meter Costs	DERP Model Output	8,455	9,024	9,228	9,442	119,938
36	General and Administrative Expenses	DERP Model Output	22,856	29,841	29,841	29,841	490,756
37	Interest on under-collection due to cap	Actuals Average	37	42	42	42	588
38	Total DER Incremental Costs	Sum Lines 29 through 37	\$ 266,963	\$ 293,030	\$ 297,007	\$ 307,556	\$ 4,017,125
39	Revenue Collected	WP9	165,840	165,454	165,541	165,629	3,060,242
40	SC DERP Incremental Costs (Over) / Under Recovery	Line 38 - Line 39	\$ 101,123	\$ 127,576	\$ 131,466	\$ 141,927	\$ 956,883
41	Adjustments						-
42	Cumulative SC DERP Incremental Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 40 + Line 41	\$ 107,363	\$ 234,939	\$ 366,405	\$ 508,331	\$ 508,331

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF DERP INCREMENTAL COSTS (OVER) / UNDER RECOVERY  
FOR THE PERIOD MARCH 2018 - JUNE 2019

Harrington Exhibit 10  
Docket No. 2019-1-E

Line No.			March 2018 through December 2018	January 2019 through June 2019		
1	Total DERP (Over) / Under Balance	Exhibit 9	(251,280)	759,611		
Allocation of DERP Incremental (Over) / Under Recovery						
2	Residential	WP8c				
3	Commercial (General Service demand /non-demand)	WP8c				
4	Industrial (General Service demand /non-demand)	WP8c				
5	Total					
Allocation of DERP Incremental (Over) / Under Recovery						
6	Residential					
7	Commercial (General Service demand /non-demand)					
8	Industrial (General Service demand /non-demand)					
9	Total					
Projected Number of						
Total Cost Allocated		Accounts in Billing	\$ per Account per	\$ per Account per		
per Firm Peak Demand		Period	Year	Month		
10	Residential	Cost Line 2 + Line 6				
11	Commercial (General Service demand /non-demand)	Cost Line 3 + Line 7				
12	Industrial (General Service demand /non-demand)	Cost Line 4 + Line 8				
13	Total					



DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
PROJECTED DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL COSTS  
FOR THE 12 MONTHS JULY 2019 - JUNE 2020

Harrington Exhibit 11  
Docket No. 2019-1-E

Line No.	Description	Reference	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019
<b>DERP Incremental Costs</b>								
1	Purchased Power Agreements	DERP Model Output	\$ 5,016	\$ 5,016	\$ 5,016	\$ 5,016	\$ 5,016	\$ 5,016
2	DER NEM Incentive	DERP Model Output	105,068	97,577	90,215	86,821	70,858	55,199
3	Solar Rebate Program - Amortization	DERP Model Output	83,492	83,492	84,214	85,817	85,817	91,017
4	Solar Rebate Program - Carrying Costs	DERP Model Output	74,485	75,443	75,339	76,044	76,374	78,528
5	Shared Solar Program	DERP Model Output	6,486	6,486	6,486	6,486	6,486	6,486
6	NEM Avoided Capacity Costs	DERP Model Output	3,351	3,417	3,498	3,602	3,659	3,854
7	NEM Meter Costs	DERP Model Output	9,646	9,830	10,005	10,171	10,316	10,457
8	General and Administrative Expenses	DERP Model Output	41,446	41,446	41,446	41,446	41,446	41,446
9	Interest on under-collection due to cap	Actuals Average	42	42	42	42	42	42
10	<b>Total DER Incremental Costs</b>	Sum Lines 1 through 9	\$ 329,031	\$ 322,748	\$ 316,262	\$ 315,445	\$ 300,015	\$ 292,045

Line No.	Description	Reference	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	Billing Period Twelve Months Ended June 2020
<b>DERP Incremental Costs</b>									
11	Purchased Power Agreements	DERP Model Output	\$ 4,991	\$ 4,991	\$ 4,991	\$ 4,991	\$ 4,991	\$ 4,991	60,045
12	DER NEM Incentive	DERP Model Output	70,804	74,214	99,828	119,624	122,282	126,729	1,119,220
13	Solar Rebate Program - Amortization	DERP Model Output	91,017	91,017	91,017	91,017	91,017	91,017	1,059,952
14	Solar Rebate Program - Carrying Costs	DERP Model Output	80,653	80,140	79,627	79,114	78,601	78,087	932,432
15	Shared Solar Program	DERP Model Output	6,413	6,413	6,413	6,413	6,413	6,413	77,392
16	NEM Avoided Capacity Costs	DERP Model Output	3,926	3,963	3,998	4,031	4,062	4,090	45,451
17	NEM Meter Costs	DERP Model Output	10,589	10,700	10,802	10,895	10,977	11,050	125,439
18	General and Administrative Expenses	DERP Model Output	21,838	21,838	21,838	21,838	21,838	21,838	379,704
19	Interest on under-collection due to cap	Actuals Average	42	42	42	42	42	42	504
20	<b>Total DER Incremental Costs</b>	Sum Lines 11 through 19	\$ 290,272	\$ 293,318	\$ 318,557	\$ 337,965	\$ 340,223	\$ 344,258	\$ 3,800,139

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
PROJECTED BILLING PERIOD INCREMENTAL COST FACTORS FOR DERP COSTS  
FOR THE PERIOD JULY 2019 - JUNE 2020

Line No.		July 2019 through June 2020	
1	Total DERP Projected Incremental Costs	Exhibit 11	3,800,139
Allocation of DERP Incremental Costs			
2	Residential	WP8c	
3	Commercial (General Service demand /non-demand)	WP8c	
4	Industrial (General Service demand /non-demand)	WP8c	
5	Total		
		Firm Peak Demand - 2018	July 2019 through June 2020
		60.91%	\$ 2,314,572
		24.11%	916,185
		14.98%	569,381
		100.00%	3,800,139 \$ 3,800,138
Projected Number of			
		Total Cost Allocated per Firm Peak Demand	Accounts in Billing Period
		\$ 2,314,572	140,028 \$ 16.53 [1] \$ 1.38
		916,185	31,323 \$ 29.25 [1] \$ 2.44
		569,381	266 \$ 2,140.53 [1] \$ 178.38
		3,800,138	171,617

Note:

[1] Residential and Industrial annual charge per-account will be capped not to exceed \$12 and \$1,200, respectively, including gross receipts taxes.

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL  
ACTUAL AND ESTIMATED COSTS MARCH 2018 - JUNE 2019

Line No.	Class	Winter 2017 Firm Coincident Peak (CP) KWS		Winter 2018 Firm Coincident Peak (CP) KWS		CP %	
		708,895	59.11%	777,822	81,290	60.91%	6.37%
1	Residential						
2	General Service (non-demand)	65,487	5.46%	81,290			
3	General Service (demand)	424,824	35.43%	417,943			
4	Lighting	0	0.00%	0			
5	Total SC	1,199,206	100.00%	1,277,055		100.00%	

Line No.	Description	Reference	Actual March 2018		Actual April 2018		Actual May 2018		Actual June 2018		Actual July 2018		Actual August 2018	
6	Purchased Power Agreements	Monthly Fuel Filing	\$	48,912	\$	62,995	\$	67,141	\$	25,125	\$	56,297	\$	158,899
7	Shared Solar Program	Monthly Fuel Filing		-		-		-		-		-		-
8	Total DERP Avoided Costs	Line 6 + Line 7	\$	48,912	\$	62,995	\$	67,141	\$	25,125	\$	56,297	\$	158,899
9	Total System kWh Sales	Monthly Fuel Filing		4,653,962,859		4,494,045,504		4,644,699,960		5,677,792,552		6,164,634,934		6,200,477,072
10	DERP Avoided System Costs (c/kWh)	Line 8 / Line 9 * 100		0.001		0.001		0.001		0.000		0.001		0.003
11	SC Retail Sales kWh	Monthly Fuel Filing		411,013,563		533,237,463		461,633,361		523,124,836		658,136,492		621,746,700
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100	\$	4,320	\$	7,475	\$	6,673	\$	2,315	\$	6,010	\$	15,933
13	SC Residential DER Avoided Costs Allocated by Firm CP	Line 12 * Line 1	\$	2,554	\$	4,419	\$	3,945	\$	1,368	\$	3,553	\$	9,419
14	SC Residential kWh Sales	Monthly Fuel Filing		143,961,446		142,967,229		126,649,812		183,269,324		209,653,372		205,859,617
15	SC Residential DERP Avoided Cost (c/kWh)	Line 13 / Line 14 * 100		0.002		0.003		0.003		0.001		0.002		0.005
16	SC Residential Rate Billed (c/kWh)	2017-1-E, 2018-1-E		0.000		0.000		0.000		0.000		0.001		0.003
17	SC DERP Avoided Costs (Over) / Under Recovery	(Line 15 - Line 16)*Line 14 /100	\$	2,554	\$	4,419	\$	3,945	\$	1,368	\$	755	\$	3,500
18	Prior Year Balance	2018-1-E	\$	1,591										
19	Adjusted Cumulative SC Residential DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 17	\$	4,145	\$	8,563	\$	12,508	\$	13,876	\$	14,631	\$	18,131

Line No.	Description	Reference	Actual September 2018		Actual October 2018		Actual November 2018		Actual December 2018		Actual January 2019		Actual February 2019		Review Period Twelve Months Ended Feb 2019	
20	Purchased Power Agreements	Monthly Fuel Filing	\$	96,632	\$	(15,529)	\$	60,191	\$	22,291	\$	(33,874)	\$	38,071	\$	587,151
21	Shared Solar Program	Monthly Fuel Filing		-		49		167		186		176		648		1,226
22	Total DERP Avoided Costs	Line 20 + Line 21	\$	96,632	\$	(15,480)	\$	60,358	\$	22,477	\$	(33,698)	\$	38,719	\$	588,377
23	Total System kWh Sales	Monthly Fuel Filing		5,427,393,740		5,150,522,556		4,723,872,382		4,828,127,846		5,615,989,658		5,087,626,427		62,669,145,490
24	DERP Avoided System Costs (c/kWh)	Line 22 / Line 23 * 100		0.002		(0.000)		0.001		0.000		(0.001)		0.001		6,409,881,605
25	SC Retail Sales kWh	Monthly Fuel Filing		511,359,659		578,449,399		505,054,037		445,338,979		605,279,111		555,508,005		59,214
26	SC DERP Avoided Costs	Line 24 * Line 25 / 100	\$	9,105	\$	(1,739)	\$	6,453	\$	2,073	\$	(3,632)	\$	4,228		35,014
27	SC Residential DER Avoided Costs Allocated by Firm CP	Line 26 * Line 1	\$	5,382	\$	(1,028)	\$	3,815	\$	1,226	\$	(2,212)	\$	2,575		
28	SC Residential kWh Sales	Monthly Fuel Filing		192,472,913		166,363,331		135,084,422		188,450,930		199,934,867		206,574,763		2,101,242,026
29	SC Residential DERP Avoided Cost (c/kWh)	Line 27 / Line 28 * 100		0.003		(0.001)		0.003		0.001		(0.001)		0.001		0.002
30	SC Residential Rate Billed (c/kWh)	2018-1-E		0.003		0.003		0.003		0.003		0.003		0.003		0.003
31	SC DERP Avoided Costs (Over) / Under Recovery	(Line 29 - Line 30)*Line 28 /100	\$	(348)	\$	(5,959)	\$	(208)	\$	(4,388)	\$	(7,812)	\$	(3,579)	\$	(5,755)
32	Adjustment(s)															-
33	Adjusted Cumulative SC Residential DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 31	\$	17,783	\$	11,824	\$	11,616	\$	7,227	\$	(585)	\$	(4,164)	\$	(4,164)

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL  
ACTUAL AND ESTIMATED COSTS MARCH 2018 - JUNE 2019

Harrington Exhibit 13  
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Line No.	Class	Winter 2018 Firm	
		Coincident Peak (CP) KWs	CP %
1	Residential	777,822	60.91%
2	General Service (non-demand)	81,290	6.37%
3	General Service (demand)	417,943	32.73%
4	Lighting	0	0.00%
5	Total SC	1,277,055	100.00%

Line No.	Description	Reference	Estimated	Estimated	Estimated	Estimated	Sixteen	
			March 2019	April 2019	May 2019	June 2019	Months Ended June 2019	
34	Purchased Power Agreements	DERP Model Output	\$	29,819	\$	39,730	\$	739,161
35	Shared Solar Program	DERP Model Output		537	\$	9,933	\$	31,560
36	Total DERP Avoided Costs	Line 34 + Line 35	\$	30,356	\$	49,663	\$	770,721
37	Total Projected System kWh Sales	WP8		4,552,981,616		4,482,512,031		4,446,396,083
38	DERP Avoided System Costs (c/kWh)	Line 36 / Line 37 * 100		0.001		0.001		0.001
39	Projected SC Retail Sales kWh	WP8		416,088,164		510,686,159		491,046,715
40	SC DERP Avoided Costs	Line 38 * Line 39 / 100	\$	2,774	\$	5,658	\$	5,816
41	SC Residential DER Avoided Costs Allocated by Firm CP	Line 40 * Line 1	\$	1,690	\$	3,446	\$	3,542
42	Projected SC Residential kWh Sales	WP8a		150,838,802		161,472,415		138,607,950
43	SC Residential DERP Avoided Cost (c/kWh)	Line 41 / Line 42 * 100		0.001		0.002		0.003
44	SC Residential Rate Billed (c/kWh)	2018-1-E		0.003		0.003		0.003
45	SC DERP Avoided Costs (Over) / Under Recovery	(Line 43 - Line 44) * Line 42 /100	\$	(2,803)	\$	(1,398)	\$	(616)
46	Adjustment(s)							
47	Adjusted Cumulative SC Residential DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 45 + Line 46	\$	(6,967)	\$	(8,365)	\$	(8,981)
48	SC Projected Residential kWh Sales Jul'19 - Jun'20	WP8a						
49	SC Residential DERP Avoided Costs Increment / (Decrement) (c/kWh)	Line 47 / Line 48 * 100						

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)  
ACTUAL AND ESTIMATED COSTS MARCH 2018 - JUNE 2019

Harrington Exhibit 13  
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Line No.	Class	Winter 2017 Firm Coincident Peak		Winter 2018 Firm Coincident Peak					
		(CP) KWh	CP %	(CP) KWh	CP %				
1	Residential	708,895	59.11%	777,822	60.91%				
2	General Service (non-demand)	65,487	5.46%	81,290	6.37%				
3	General Service (demand)	424,824	35.43%	417,943	32.73%				
4	Lighting	0	0.00%	0	0.00%				
5	Total SC	1,199,206	100.00%	1,277,055	100.00%				
Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018	
6	Purchased Power Agreements	Monthly Fuel Filing	\$ 48,912	\$ 62,995	\$ 67,141	\$ 25,125	\$ 56,297	\$ 158,899	
7	Shared Solar Program	Monthly Fuel Filing	-	-	-	-	-	-	
8	Total DERP Avoided Costs	Line 6 + Line 7	\$ 48,912	\$ 62,995	\$ 67,141	\$ 25,125	\$ 56,297	\$ 158,899	
9	Total System kWh Sales	Monthly Fuel Filing	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072	
10	DERP Avoided System Costs (c/kWh)	Line 8 / Line 9 * 100	0.001	0.001	0.001	0.000	0.001	0.003	
11	SC Retail Sales kWh	Monthly Fuel Filing	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700	
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100	\$ 4,320	\$ 7,475	\$ 6,673	\$ 2,315	\$ 6,010	\$ 15,933	
13	SC General Service (non-demand) DERP Avoided Costs Allocated by Firm CP	Line 12 * Line 2	\$ 236	\$ 408	\$ 364	\$ 127	\$ 328	\$ 870	
14	SC General Service (non-demand) kWh Sales	Monthly Fuel Filing	18,983,274	19,396,612	19,878,431	27,515,526	30,997,729	31,253,114	
15	SC General Service (non-demand) DERP Avoided Cost (c/kWh)	Line 13 / Line 14 * 100	0.001	0.002	0.002	0.000	0.001	0.003	
16	SC General Service (non-demand) Rate Billed (c/kWh)	2017-1-E, 2018-1-E	0.000	0.000	0.000	0.000	0.000	0.001	
17	SC DERP Avoided Costs (Over) / Under Recovery	(Line 15 - Line 16)*Line 14 /100	\$ 236	\$ 408	\$ 364	\$ 127	\$ 189	\$ 568	
18	Prior Year Balance	2018-1-E	\$ 148						
19	Cumulative SC General Service (non-demand) DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 17 + Line 18	\$ 384	\$ 792	\$ 1,156	\$ 1,284	\$ 1,473	\$ 2,041	
Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
20	Purchased Power Agreements	Monthly Fuel Filing	\$ 96,632	\$ (15,529)	\$ 60,191	\$ 22,291	\$ (33,874)	\$ 38,071	\$ 587,151
21	Shared Solar Program	Monthly Fuel Filing	-	49	167	186	176	648	1,226
22	Total DERP Avoided Costs	Line 20 + Line 21	\$ 96,632	\$ (15,480)	\$ 60,358	\$ 22,477	\$ (33,698)	\$ 38,719	\$ 588,377
23	Total System kWh Sales	Monthly Fuel Filing	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490
24	DERP Avoided System Costs (c/kWh)	Line 22 / Line 23 * 100	0.002	(0.000)	0.001	0.000	(0.001)	0.001	0.001
25	SC Retail Sales kWh	Monthly Fuel Filing	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605
26	SC DERP Avoided Costs	Line 24 * Line 25 / 100	\$ 9,105	\$ (1,739)	\$ 6,453	\$ 2,073	\$ (3,632)	\$ 4,228	\$ 59,214
27	SC General Service (non-demand) DERP Avoided Costs Allocated by Firm CP	Line 26 * Line 2	\$ 497	\$ (95)	\$ 352	\$ 113	\$ (231)	\$ 269	\$ 3,240
28	SC General Service (non-demand) kWh Sales	Monthly Fuel Filing	29,398,859	25,905,784	43,187,370	1,109,696	24,675,505	25,191,572	297,493,472
29	SC General Service (non-demand) DERP Avoided Cost (c/kWh)	Line 27 / Line 28 * 100	0.002	(0.000)	0.001	0.010	(0.001)	0.001	0.001
30	SC General Service (non-demand) Rate Billed (c/kWh)	2018-1-E	0.001	0.001	0.001	0.001	0.001	0.001	0.0010
31	SC DERP Avoided Costs (Over) / Under Recovery	(Line 29 - Line 30)*Line 28 /100	\$ 203	\$ (354)	\$ (80)	\$ 102	\$ (399)	\$ 17	\$ 1,383
32	Adjustment(s)	Prior Month Cumulative Balance + Line 31 + Line 32	\$ 2,244	\$ 1,890	\$ 1,811	\$ 1,913	\$ 1,514	\$ 1,531	\$ 1,531
33	Cumulative SC General Service (non-demand) DERP Avoided Costs (Over) / Under Recovery								

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)  
ACTUAL AND ESTIMATED COSTS MARCH 2018 - JUNE 2019

Harrington Exhibit 13  
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Line No.	Class	Winter 2018 Firm	
		Coincident Peak (CP) KWS	CP %
1	Residential	777,822	60.91%
2	General Service (non-demand)	81,290	6.37%
3	General Service (demand)	417,943	32.73%
4	Lighting	0	0.00%
5	Total SC	1,277,055	100.00%

Line No.	Description	Reference	Estimated March 2019		Estimated April 2019		Estimated May 2019		Estimated June 2019		Sixteen Months Ended June 2019
34	Purchased Power Agreements	DERP Model Output	\$	29,819	\$	39,730	\$	42,730	\$	39,730	739,161
35	Shared Solar Program	DERP Model Output		537		9,933		9,933		9,933	31,560
36	Total DERP Avoided Costs	Line 34 + Line 35	\$	30,356	\$	49,663	\$	52,663	\$	49,663	770,721
37	Total Projected System kWh Sales	WP8		4,552,981,616		4,482,512,031		4,446,396,083		5,204,419,092	81,355,454,312
38	DERP Avoided System Costs (c/kWh)	Line 36 / Line 37 * 100		0.001		0.001		0.001		0.001	
39	Projected SC Retail Sales kWh	WP8		416,088,164		510,686,159		491,046,715		541,036,670	8,368,739,314
40	SC DERP Avoided Costs	Line 38 * Line 39 / 100	\$	2,774	\$	5,658	\$	5,816	\$	5,163	78,625
41	SC General Service (non-demand) DERP Avoided Costs Allocated by Firm CP	Line 40 * Line 2	\$	177	\$	360	\$	370	\$	329	4,476
42	Projected SC General Service (non-demand) kWh Sales	WP8a		18,802,778		23,902,363		24,173,210		25,241,053	389,612,876
43	SC General Service (non-demand) DERP Avoided Cost (c/kWh)	Line 41 / Line 42 * 100		0.001		0.002		0.002		0.001	0.001
44	SC General Service (non-demand) Rate Billed (c/kWh)	2018-1-E		0.001		0.001		0.001		0.001	0.001
45	SC DERP Avoided Costs (Over) / Under Recovery	(Line 43 - Line 44)*Line 42 /100	\$	(12)	\$	121	\$	128	\$	76	1,696
46	Adjustment(s)										-
47	Cumulative SC General Service (non-demand) DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 45 + Line 46	\$	1,519	\$	1,640	\$	1,768	\$	1,844	1,844
48	SC Projected General Service (non-demand) kWh Sales Jul'19 - Jun'20	WP8a									299,773,076
49	SC General Service (non-demand) DERP Avoided Costs Increment / (Decrement) (c/kWh)	Line 47 / Line 48 * 100									0.001

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (DEMAND)  
ACTUAL AND ESTIMATED COSTS MARCH 2018 - JUNE 2019

Line No.	Class	Winter 2017 Firm Coincident Peak (CP) KWS		Winter 2018 Firm Coincident Peak (CP) KWS		CP %	
		708,895	59.11%	777,822	81,290	6.37%	60.91%
1	Residential						
2	General Service (non-demand)	65,487	5.46%				
3	General Service (demand)	424,824	35.43%	417,943		32.73%	
4	Lighting	0	0.00%	0		0.00%	
5	Total SC	1,199,206	100.00%	1,277,055		100.00%	

Line No.	Description	Actual March 2018		Actual April 2018		Actual May 2018		Actual June 2018		Actual July 2018		Actual August 2018	
		Reference		Reference		Reference		Reference		Reference		Reference	

6	Purchased Power Agreements	Monthly Fuel Filing	\$	48,912	\$	62,995	\$	67,141	\$	25,125	\$	56,297	\$	158,899
7	Shared Solar Program	Monthly Fuel Filing		-		-		-		-		-		-
8	Total DERP Avoided Costs	Line 6 + Line 7	\$	48,912	\$	62,995	\$	67,141	\$	25,125	\$	56,297	\$	158,899
9	Total System kWh Sales	Monthly Fuel Filing		4,653,962,859		4,494,045,504		4,644,699,960		5,677,792,552		6,164,634,934		6,200,477,072
10	DERP Avoided System Costs (c/kWh)	Line 8 / Line 9 * 100		0.001		0.001		0.001		0.000		0.001		0.003
11	SC Retail Sales kWh	Monthly Fuel Filing		411,013,563		533,237,463		461,633,361		523,124,836		658,136,492		621,746,700
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100	\$	4,320	\$	7,475	\$	6,673	\$	2,315	\$	6,010	\$	15,933
13	SC General Service (demand) DERP Avoided Costs Allocated by Firm	Line 12 * Line 3	\$	1,530	\$	2,648	\$	2,364	\$	820	\$	2,129	\$	5,644
14	SC General Service (demand) kW Sales	Monthly Fuel Filing		657,929		666,086		652,200		669,014		703,175		805,885
15	SC General Service (demand) DERP Avoided Costs (c/kWh)	Line 13 / Line 14 * 100		0.233		0.398		0.362		0.123		0.303		0.700
16	SC General Service (demand) Rate Billed (c/kWh)	2017-1-E, 2018-1-E		0.000		0.000		0.000		0.000		0.000		0.000
17	SC DERP Avoided Costs (Over) / Under Recovery	(Line 15 - Line 16)*Line 14 /100	\$	1,530	\$	2,648	\$	2,364	\$	820	\$	2,129	\$	5,644
18	Prior Year Balance and Misc. Adjustment(s)	2018-1-E	\$	975										
19	Cumulative SC General Service (demand) DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 17 + Line 18	\$	2,505	\$	5,153	\$	7,517	\$	8,337	\$	10,466	\$	16,111

Line No.	Description	Actual September 2018		Actual October 2018		Actual November 2018		Actual December 2018		Actual January 2019		Actual February 2019		Review Period Twelve Months Ended Feb 2019
		Reference		Reference		Reference		Reference		Reference		Reference		
20	Purchased Power Agreements	Monthly Fuel Filing	\$	96,632	\$	(15,529)	\$	60,191	\$	22,291	\$	(33,874)	\$	587,151
21	Shared Solar Program	Monthly Fuel Filing		-		49		167		186		176		1,226
22	Total DERP Avoided Costs	Line 20 + Line 21	\$	96,632	\$	(15,480)	\$	60,358	\$	22,477	\$	(33,698)	\$	588,377
23	Total System kWh Sales	Monthly Fuel Filing		5,427,393,740		5,150,522,556		4,723,872,382		4,828,127,846		5,615,989,658		5,087,626,427
24	DERP Avoided System Costs (c/kWh)	Line 22 / Line 23 * 100		0.002		(0.000)		0.001		0.000		(0.001)		0.001
25	SC Retail Sales kWh	Monthly Fuel Filing		511,359,659		578,449,399		505,054,037		445,338,979		605,279,111		555,508,005
26	SC DERP Avoided Costs	Line 24 * Line 25 / 100	\$	9,105	\$	(1,739)	\$	6,453	\$	2,073	\$	(3,632)	\$	4,228
27	SC General Service (demand) DERP Avoided Costs Allocated by Firm	Line 26 * Line 3	\$	3,226	\$	(616)	\$	2,286	\$	734	\$	(1,190)	\$	1,384
28	SC General Service (demand) kW Sales	Monthly Fuel Filing		885,000		704,900		647,300		621,700		409,400		671,000
29	SC General Service (demand) DERP Avoided Costs (c/kWh)	Line 27 / Line 28 * 100		0.36		(0.09)		0.35		0.12		(0.29)		0.21
30	SC General Service (demand) Rate Billed (c/kWh)	2018-1-E		-		-		-		-		-		-
31	SC DERP Avoided Costs (Over) / Under Recovery	(Line 29 - Line 30)*Line 28 /100	\$	3,226	\$	(616)	\$	2,286	\$	734	\$	(1,205)	\$	1,384
32	Adjustment(s)													-
33	Cumulative SC General Service (demand) DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 31 + Line 32	\$	19,337	\$	18,721	\$	21,007	\$	21,742	\$	20,537	\$	21,921

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (DEMAND)  
ACTUAL AND ESTIMATED COSTS MARCH 2018 - JUNE 2019

Harrington Exhibit 13  
Page 6 of 8  
Docket No. 2019-1-E

Line No.	Class	Winter 2018 Firm	
		Coincident Peak (CP) KWs	CP %
1	Residential	777,822	60.91%
2	General Service (non-demand)	81,290	6.37%
3	General Service (demand)	417,943	32.73%
4	Lighting	0	0.00%
5	Total SC	1,277,055	100.00%

Line No.	Description	Reference	Estimated	Estimated	Estimated	Estimated	Sixteen
			March 2019	April 2019	May 2019	June 2019	Months Ended June 2019
34	Purchased Power Agreements	DERP Model Output	\$ 29,819	\$ 39,730	\$ 42,730	\$ 39,730	739,161
35	Shared Solar Program	DERP Model Output	537	9,933	9,933	9,933	31,560
36	Total DERP Avoided Costs	Line 34 + Line 35	\$ 30,356	\$ 49,663	\$ 52,663	\$ 49,663	770,721
37	Total Projected System kWh Sales	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
38	DERP Avoided System Costs (¢/kWh)	Line 36 / Line 37 * 100	0.001	0.001	0.001	0.001	
39	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
40	SC DERP Avoided Costs	Line 38 * Line 39 / 100	\$ 2,774	\$ 5,658	\$ 5,816	\$ 5,163	\$ 78,625
41	SC General Service (demand) DERP Avoided Costs Allocated by Firm CP	Line 40 * Line 3	\$ 908	\$ 1,852	\$ 1,903	\$ 1,690	\$ 27,313
42	Projected SC General Service (demand) kW Sales	WP8a	645,500	696,605	771,394	824,008	11,031,096
43	SC General Service (demand) DERP Avoided Costs (¢/kWh)	Line 41 / Line 42 * 100	0.141	0.266	0.247	0.205	0.248
44	SC General Service (demand) Rate Billed (¢/kWh)	2018-1-E	-	-	-	-	-
45	SC DERP Avoided Costs (Over) / Under Recovery	(Line 43 - Line 44)*Line 42 /100	\$ 908	\$ 1,852	\$ 1,903	\$ 1,690	\$ 27,298
46	Adjustment(s)	Prior Month Cumulative Balance +					-
47	Cumulative SC General Service (demand) DERP Avoided Costs (Over) / Under Recovery	Line 45 + Line 46	\$ 22,829	\$ 24,680	\$ 26,584	\$ 28,273	\$ 28,273
48	SC Projected General Service (demand) kW Sales Jul'19-Jun'20	WP8a					9,063,849
49	SC General Service (demand) DERP Avoided Cost Increment / (Decrement) (¢/kW)	Line 47 / Line 48 * 100					0.312



DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - LIGHTING  
ACTUAL AND ESTIMATED COSTS MARCH 2018 - JUNE 2019

Line No.	Class	Winter 2017 Firm Coincident Peak (CP) KWs		Winter 2018 Firm Coincident Peak (CP) KWs		CP %	
		708,895	59.11%	777,822	81,290	60.91%	6.37%
1	Residential						
2	General Service (non-demand)	65,487	5.46%	81,290			
3	General Service (demand)	424,824	35.43%	417,943			
4	Lighting	0	0.00%	0			
5	Total SC	1,199,206	100.00%	1,277,055		100.00%	

Line No.	Description	Actual March 2018		Actual April 2018		Actual May 2018		Actual June 2018		Actual July 2018		Actual August 2018	
		Reference	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018

6	Purchased Power Agreements	Monthly Fuel Filing	\$	48,912	\$	62,995	\$	67,141	\$	25,125	\$	56,297	\$	158,899
7	Shared Solar Program	Monthly Fuel Filing		-		-		-		-		-		-
8	Total DERP Avoided Costs	Line 6 + Line 7	\$	48,912	\$	62,995	\$	67,141	\$	25,125	\$	56,297	\$	158,899
9	Total System kWh Sales	Monthly Fuel Filing		4,653,962,859		4,494,045,504		4,644,699,960		5,677,792,552		6,164,634,934		6,200,477,072
10	DERP Avoided Costs (c/kWh)	Line 8 / Line 9 * 100		0.001		0.001		0.001		0.000		0.001		0.003
11	SC Retail Sales kWh	Monthly Fuel Filing		411,013,563		533,237,463		461,633,361		523,124,836		658,136,492		621,746,700
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100	\$	4,320	\$	7,475	\$	6,673	\$	2,315	\$	6,010	\$	15,933
13	SC Lighting DERP Avoided Costs Allocated by Firm CP	Line 12 * Line 4	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
14	SC Lighting kWh Sales	Monthly Fuel Filing		6,689,961		6,728,220		6,641,827		6,621,076		6,680,462		6,850,282
15	SC Lighting DERP Avoided Costs (c/kWh)	Line 13 / Line 14 * 100		0.000		0.000		0.000		0.000		0.000		0.000
16	SC Lighting Rate Billed (c/kWh)	2017-1-E, 2018-1-E		0.000		0.000		0.000		0.000		0.000		0.000
17	SC DERP Avoided Costs (Over) / Under Recovery	(Line 15 - Line 16)*Line 14 /100	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
18	Prior Year Balance and Misc. Adjustment(s)	2018-1-E	\$	-										
19	Cumulative SC Lighting DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 17 + Line 18	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-

Line No.	Description	Actual September 2018		Actual October 2018		Actual November 2018		Actual December 2018		Actual January 2019		Actual February 2019		Review Period Twelve Months Ended Feb 2019
		Reference	2018	2018	2018	2018	2018	2018	2018	2019	2019	2019	2019	
20	Purchased Power Agreements	Monthly Fuel Filing	\$	96,632	\$	(15,529)	\$	60,191	\$	22,291	\$	(33,874)	\$	587,151
21	Shared Solar Program	Monthly Fuel Filing		-		49		167		186		176		1,226
22	Total DERP Avoided Costs	Line 20 + Line 21	\$	96,632	\$	(15,480)	\$	60,358	\$	22,477	\$	(33,698)	\$	588,377
23	Total System kWh Sales	Monthly Fuel Filing		5,427,393,740		5,150,522,556		4,723,872,382		4,828,127,846		5,615,989,658		62,669,145,490
24	DERP Avoided Costs (c/kWh)	Line 22 / Line 23 * 100		0.002		(0.000)		0.001		0.000		(0.001)		0.001
25	SC Retail Sales kWh	Monthly Fuel Filing		511,359,659		578,449,399		505,054,037		445,338,979		605,279,111		6,409,881,605
26	SC DERP Avoided Costs	Line 24 * Line 25 / 100	\$	9,105	\$	(1,739)	\$	6,453	\$	2,073	\$	(3,632)	\$	59,214
27	SC Lighting DERP Avoided Costs Allocated by Firm CP	Line 26 * Line 4	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
28	SC Lighting kWh Sales	Monthly Fuel Filing		6,430,052		6,790,304		6,559,351		6,430,252		6,581,684		79,556,647
29	SC Lighting DERP Avoided Costs (c/kWh)	Line 27 / Line 28 * 100		0.000		0.000		0.000		0.000		0.000		0.000
30	SC Lighting Rate Billed (c/kWh)	2018-1-E		0.000		0.000		0.000		0.000		0.000		0.000
31	SC DERP Avoided Costs (Over) / Under Recovery	(Line 29 - Line 30)*Line 28 /100	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
32	Adjustment(s)	Prior Month Cumulative Balance +												-
33	Cumulative SC Lighting DERP Avoided Costs (Over) / Under Recovery	Line 31 + Line 32	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-



DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
PROJECTED DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS  
FOR THE 12 MONTHS JULY 2019 TO JUNE 2020

**Harrington Exhibit 14**  
**Docket No. 2019-1-E**

Line No.	Class	Winter 2018 Firm Coincident Peak (CP) KWS	CP %
1	Residential	777,822	60.91%
2	General Service (non-demand)	81,290	6.37%
3	General Service (demand)	417,943	32.73%
4	Lighting	0	0.00%
5	Total SC	1,277,055	100.00%

Line No.	Description	Reference	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019
6	Purchased Power Agreements	DERP Model Output	\$ 39,640	\$ 39,640	\$ 39,640	\$ 39,640	\$ 39,640	\$ 39,640
7	Shared Solar Program	DERP Model Output	9,910	9,910	9,910	9,910	9,910	9,910
8	Total DERP Avoided Costs	Line 6 + Line 7	\$ 49,550	\$ 49,550	\$ 49,550	\$ 49,550	\$ 49,550	\$ 49,550
9	Projected Total System Sales	WP8	5,953,609,386	6,010,985,735	5,482,284,590	4,671,693,496	4,595,842,719	5,172,638,730
10	DERP Avoided System Costs (c/kwh)	Line 8 / Line 9 *100	0.001	0.001	0.001	0.001	0.001	0.001
11	Projected SC Retail Sales	WP8	615,370,381	630,455,795	602,829,492	524,692,648	500,969,344	552,701,752
12	SC DERP Avoided Costs	Line 10 * Line 11 /100	\$ 5,121	\$ 5,197	\$ 5,448	\$ 5,565	\$ 5,401	\$ 5,294

Line No.	Description	Reference	2020	2020	2020	2020	2020	2020	2020	Ended June 2020
13	Purchased Power Agreements	DERP Model Output	\$ 110,458	\$ 110,458	\$ 110,458	\$ 110,458	\$ 113,458	\$ 110,458	\$ 110,458	903,585
14	Shared Solar Program	DERP Model Output	9,860	9,860	9,860	9,860	9,860	9,860	9,860	118,622
15	Total DERP Avoided Costs	Line 13 + Line 14	\$ 120,318	\$ 120,318	\$ 120,318	\$ 120,318	\$ 123,318	\$ 120,318	\$ 120,318	1,022,207
16	Projected Total System Sales	WP8	5,679,535,820	5,466,072,140	5,022,976,178	4,423,919,449	4,396,701,438	5,136,235,584	62,012,495,267	
17	DERP Avoided System Costs (c/kwh)	Line 15 / Line 16 *100	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002
18	Projected SC Retail Sales	WP8	605,095,272	594,590,939	555,942,153	512,389,178	493,993,336	541,309,853	6,730,340,143	
19	SC DERP Avoided Costs	Line 17 * Line 18 /100	\$ 12,819	\$ 13,088	\$ 13,317	\$ 13,936	\$ 13,855	\$ 12,680	\$ 111,722	
<b>SC DERP Avoided Costs Allocated on Firm CP kWs</b>										
20	Residential	Total Line 19 * Line 1							\$	68,047
21	General Service (non-demand)	Total Line 19 * Line 2								7,112
22	General Service (demand)	Total Line 19 * Line 3								36,563
23	Lighting	Total Line 19 * Line 4								-
24	Total SC	Sum Lines 20 through 23						\$	111,722	

Projected SC Retail Sales kWh for the 12 month period		
25	Residential	WP8a
26	General Service (non-demand)	WP8a
27	General Service (demand)	WP8a
28	Lighting	WP8a
29	Total SC	Sum Lines 25 through 28
SC DERP Avoided Costs ¢/kWh		
30	Residential	Line 20 / Line 25 * 100
31	General Service (non-demand)	Line 21 / Line 26 * 100
32	Lighting	Line 23 / Line 28 * 100
33	Projected SC kW Sales (General Service demand)	WP8a
34	General Service (Demand) charge for SC DERP Avoided Costs	Line 22 / Line 33 * 100